THERMAL MATURITY IN THE MACKENZIE CORRIDOR, NORTHWEST AND YUKON TERRITORIES, CANADA

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INTRODUCTION

Thermal maturation parameters for samples from the Mackenzie Corridor include Rock-Eval pyrolysis, reflected light microscopy (mainly vitrinite and pyrobitumen reflectance measurements), and to a lesser extent ultraviolet (UV) fluorescence, thermal alteration index (TAI) and chemical and biological marker information. Table 1 provides a list of wells and samples for which one or more types of information are contained in the data base. Figure 1 presents (graphically) a preliminary inventory for the types of information available for the studied wells along with a coded citation for the sources of the information. Tables 2, 3 and 4 summarize, respectively, data obtained by Rock-Eval pyrolysis, reflected light microscopy and combined gas chromatography-mass spectrometry. Other data indicated by the inventory map (Figure 1) are not presented in the present report. Figures 2 and 3 present the Rock-Eval Tmax and vitrinite reflectance distributions in the Middle to Late Devonian Horn River and statigraphically related formations (Williams, 1983) across the study area.

While much of the data set assembled here consists of new measurements, a large number of data were extracted from other studies. Code numbers in the reference fields in tables 2 to 4 refer to the following:

1. This study.
2. Geochem Laboratories (Canada) Ltd. - Applied Geoscience and Technology (AGAT) Consultants Ltd. (1977) Lower Mackenzie Energy Corridor Study; Canadian Oil and Gas Lands Administration File Number 051-04-06-001.
3. Gunther, P.R. and N.C. Meijer-Drees (1977) Devonian Coal in the subsurface of Great Slave Plain: a guide to exploration for oil and gas; Geological Survey of Canada Paper 77-1A, p. 147-149.

4. Snowdon, L.R. P.W. Brooks, G.K. Williams and F. Goodarzi (1987) Correlation of the Canol Formation source rock with oil from Norman Wells; Organic Geochemistry, v11, p529-548.
7 Cecile, M.P. - L.R. Snowdon (1982) Unpubl. Memorandum 202-1-PG-2.
8. Snowdon, L.R. - M.P. Cecile (1984) Unpubl. Memorandum, Sept. 9/84.
9. Cecile, M.P. - L.R. Snowdon (1986) Unpubl. Memorandum, June 5, 1986.

EXPERIMENTAL

Rock-Eval pyrolysis

A fraction of the rock samples was pulverized to about 100 mesh using pestle and mortar and the powder was analyzed by Rock- Eval/TOC pyrolysis apparatus (Espitalie et al., 1977; Peters, 1986). The Rock-Eval data obtained are summarized in Table 2. The Rock-Eval parameter Tmax records the temperature at which maximum hydrocarbon was generated (S2 peak) from the organic matter upon heating in an inert atmosphere and as such it indicates the level of maturation for the examined sample (Espitalie wt al., 1977). However, it is pertinent to note that the Tmax may be influenced also by factors such as concentration and type of the organic matter and inorganic matrix and presence of migrated hydrocarbons. In addition, the Tmax become gradually less certain with the decrease of the hydrocarbon generation peak S2 because of either lack of generation potential (low TOC or type of organic matter) or exhausted potential due to over maturation. Often when the S2 peak is low an anomalous Tmax is recorded reflecting an instrumental artifact rather than a true indication of maturity.

Reflected light microscopy

A nonpulveried fraction of the samples studied was mounted in cold set resin and polished according to the procedure suggested by Mackowsky (1982). The polished mounts were examined using reflected white-light and fluorescent light microscopy. Reflectance measurements in oil (n = 1.518 at 24°C) were made using Zeiss MPM II and Leitz MPV SP reflected light microscopes both fitted with white (halogen) and fluorescence (HBO) light sources and grating monochromator. The reflectance (random) values obtained for vitrinite and pyrobitumen macerals are summarized in Table 3. Reflectance measured on pyrobitumen was translated to a vitrinite reflectance equivalent values using the correlation proposed by Jacob (1983, 1985).

Chemistry and biomarkers

Some potential source rocks, bitumen and oil samples were analyzed to determine their maturity and chemical and biomarker characteristics. An aliquot of the 100 mesh pulverized fraction of some of the samples along with some bitumen samples were subjected to an organic solvent extraction (chloroform:methanol 87:13 for 24 hours). The oil samples were topped to remove the low boiling (<210°C) fraction. The extracts and the oils were fractionated using open column (1:3 mixture activated silica gel:alumina) liquid chromatography. The saturate fraction was eluted with pentane, the aromatics with a 50:50 mixture of pentane and dichloromethane, the NSO's (nitrogen, sulfur, oxygen containing compounds) with methanol and the asphaltenes with chloroform.

An aliquot of the saturated hydrocarbon fraction of each sample was run on a capillary gas chromatograph (Varian 3700 FID with a 30m DB-1 fused silica column, temperature programmed from 60 to 260°C at 4°C/min. and then held isothermal). Another aliquot of the saturate fractions was analysed by combined gas chromatography - mass spectrometry (GC-MS and/or GC-MS-MS). The analyses were performed on a Kratos MS80-RF cotrolled by a DS-55M data system and a VG70SQ hybrid MS-MS controlled by a VG11-250J + data system. Gas chromatographic separation in each case was carried out using a 25m DB-5 fused silica column temperature programmed from 60 to 310°C at 4°C/min and then held isothermal. The column effluent, in each case, was fed directly to the source of the mass spectrometer. Experimental conditions were similar to those described by Snowdon et al. (1987). Representative data derived from th mass chromatograms obtained for the sterane (m/z 217) and the terpane (m/z 191) compounds are presented in Table 4.

DISCUSSION

The present project has emphasized the study of the Middle - Late Devonian stratigraphic interval of the Horn River and related formations due to its potential for hydrocarbon generation (Snowdon et al., 1987; Feinstein et al. 1988) and because of its extent and relatively good correlation across the study area (Williams, 1983; Pugh, 1983). Our term "Horn River" includes the following formations or members: Evie, Muskwa, Waterways, Bluefish, Hare Indian , Canol and Canol-like shales. The distribution of the wells selected for the present study is therefore controlled to a large extent by the distribution of the "Horn River" Formation (Figures 1-3). Figure 2 presents the distribution of average Tmax values of variable numbers of "Horn River" Formation samples for a given well or outcrop location. The relatively high TOC content of the "Horn River" Formation even at apparently high levels of thermal maturation (Snowdon et al., 1987; Feinstein et al., 1988) suggests that the

scattered Tmax values (usually >500°C) are the result of a level of thermal alteration which can be described as overmature (OM - Figure 2). Tmax values which are higher than those normally used to interpret the level of maturation have been presented in Figure 2 for those wells where it appears to be consistent with other results. However, iso-Tmax contours for >500°C have been plotted with dashed lines to stress the uncertainty involved with values at that level of maturation.

Figure 3 presents average vitrinite reflectance (%Roil) values for various wells and outcrops for the Horn River" Formation across the study area. %Roil values accompanied by "(equiv.)" were calculated from reflectance measurements on pyrobitumen using the correlation proposed by Jacob (1983). Values prefixed in Figures 2 and 3 by "<" or ">" signs indicate a constraint on the Tmax or the %Roil of the "Horn River" Formation extrapolated from either underlying or overlying formations, respectively. The name of the actual formation for which the given value was determined is abbreviated in parentheses (Figures 2 and 3). It is important to stress that the values presented in Figures 2 and 3 are means calculated from varying number of samples data for the entire "Horn River" interval which varies significantly in thickness and lithofacies across the study area (Williams, 1983). The actual Tmax and %Roil data available for each of the wells are summarized in Tables 2 and 3. A fairly representative mean value for the "Horn River" interval could be determined for most of the wells studied (Figures 2 and 3). However, for some of the wells we prefered to present the intervals of the Tmax and/or %Roil values along with the mean value in bracketts (Figures 2 and 3).

A major difficulty pertinent to the study of vitrinite reflectance in the "Horn River" Formation is that this unit consists of marine, often calcareous, shales predominated by liptinitic material with a limited content of "true" vitrinite. This gives rise to the importance of correlation among a variety of parameters. In general, there is a good agreement between the regional distribution of maturation indicated by the Tmax and that obtained by the vitrinite and pyrobitumen reflectance measurements (c.f. Figures 2 and 3, respectively), despite the variability of the "Horn River" organofacies and the limitation of the interpretability of Tmax at high levels of thermal maturity.

In general, the regional trend of the iso-Tmax and iso- reflectance contours is NNW-SSE with the maturity increasing from east to west (Figures 2 and 3), by and large in accordance with the major structural pattern. For discussion of the maturation of the "Horn River" Formation, the study area may be conveniently divided into three regions -- southern, central and northern.

In the southern part of the study area (Trout Lake - Great Slave Lake area) the maturity recorded increases gradually from about 0.50% Roil (Tmax of about 430°C) in the eastern part (Providence K-

45, Mills Lake and Willow Lake areas), to about 1.35% Roil (Tmax of about 465°C) at the center (Rabbitskin I-08), and up to >2.0% Roil in the west (Ebbutt D-50 and Arrowhead I-46). Over most of this area the maturity level of the "Horn River" Formation is in the range of the oil window (oil generation and preservation), approximately between 0.5-1.3% Roil (Vassoyevich, 1969; Teichmuller, 1974; Tissot et al., 1974; Powell and Snowdon, 1983), except for the western margins and perhaps a local zone around the Rabbitskin I-08 well in the central part. Northwestward condensation of the iso-reflectance contours reflects a higher rate of westward increase of maturation in the Ebbutt Hills region (at the eastern edge of the Root Basin).

A prominant deflection of the iso-reflectance contours with respect to the regional trend is shown in the center of the southern part of the study area, indicating an elongated WSW-ENE trend of a relatively high maturity accompanied to its north by a parallel zone of a relatively low maturity (Figures 2 and 3). The residual reflectance indicated by the deflection of the iso- reflectance contours relative to the regional trend in Figure 3 is about 0.4-0.5%Ro.

In the central part of the study area (near 64°N) the iso- reflectance contours in Figure 3 display a pronounced westward deflection. A transistion from low or moderate maturity to overmature occurrs between Tate J-65 and Stewart B-30. A very rapid north to south increase in reflectance (0.58 to 1.34% Ro) takes place within 10 km. The precise strike of this easterly trending belt cannot be defined with confidence. In Stewart B-30 and control points to the south there is a discontinuity in the %Roil versus depth profile between the Devonian and the overlying Cretaceous formations (Table 3); this indicates that the maturation recorded for the Devonian formations in the south predates the pre-Cretaceous unconformity. No such discontinuity has been observed over the area to the north. The above anomalies (easterly strike, high rate of change, and vertical discontinuity) occur over the southern part of the Keele Arch (Cook, 1975) near its junction with the Root Basin. These anomalies may be linked in some fashion to deep-seated transverse (NE-SW) faults that are to be anticipated where these two major tectonic features abut.

In the northern part of the study area (Lower Mackenzie River - drainage area) the distribution of the Tmax and the %Roil of the "Horn River" Formation forms arcuate iso-reflectance contours (Figures 2 and 3). Over most of the area the maturation increases gradually from east to west: e.g. from marginally mature (0.60% Roil, 430°C) in the Rond Lake to a high maturation level (1.1% Roil, 460°C) in the Ontaratue H-34 at the centre and overmature (>1.3% Roil) to the west (Figures 2 and 3). This pattern of maturity distribution conforms, in general, with the present structure of the area. A belt of condensed contours indicates a relatively narrow zone of overmaturation with a rapid increase of maturation level that outlines this area to the west and southwest. The condensed

contours roughly parallel the Richardson Mountains but seem to be oblique to the northern edge of the Mackenzie Mountains. This could indicate that the maturation predates at least the latest phase of deformation in the Mackenzie Mountains; however, the control available to date is insufficient and additional data are required for the elucidation of this observation. A NE trending zone of higher maturation bounded on both sides by a relatively low level of maturation intersects the regional trend of the %Roil contours in the area near 66°N and 134°W. This feature might reflect as yet unknown tectonic features at the junction of the Richardson and Mackenzie mountains.

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FIGURES

1. Preliminary inventory map of the Mackenzie Corridor area showing samples locations and types of maturity data.

2. Rock-Eval Tmax isopleths.

3. Vitrinite reflectance (measured and calculated) isopleths.

TABLES

1. Names, locations, depths and types of samples used in this study.

2. Rock-Eval pyrolysis and TOC data.

3. Vitrinite and pyrobitumen reflectance values. Equivalent vitrinite reflectance values have been calculated as 0.618 x bitumen reflectance + 0.40 after Jacob (1985).

4. Selected polycyclic saturated biomarker distributions and ratios.

TABLE 1. WELLS AND SAMPLES STUDIED

ARCTIC RED C-60 (6649/13355)			
C-60	100.0	ARCTIC RED	cuttings
C-60	230.0	ARCTIC RED	cuttings
C-60	580.0	ARCTIC RED	cuttings
C-60	880.0	IMPERIAL	cuttings
C-60	1120.0	IMPERIAL	cuttings
C-60	1360.0	IMPERIAL	cuttings
C-60	1790.0	IMPERIAL	cuttings
C-60	2120.0	IMPERIAL	cuttings
C-60	2450.0	IMPERIAL	cuttings
C-60	2800.0	IMPERIAL	cuttings
C-60	3180.0	IMPERIAL	cuttings
C-60	3370.0	IMPERIAL	cuttings
C-60	3500.0	IMPERIAL	cuttings
C-60	3800.0	IMPERIAL	cuttings
C-60	4130.0	IMPERIAL	cuttings
C-60	4420.0	IMPERIAL	cuttings
C-60	4840.0	IMPERIAL	cuttings
C-60	5130.0	IMPERIAL	cuttings
C-60	5300.0	IMPERIAL	cuttings
C-60	5350.0	CANOL (W)	cuttings
C-60	5400.0	CANOL (W)	cuttings
C-60	5450.0	CANOL (W)	cuttings
C-60	5480.0	CANOL (W)	cuttings
C-60	5570.0	HUME	cuttings
C-60	5810.0	HUME	cuttings
C-60	6110.0	LANDRY	cuttings
C-60	6500.0	LANDRY	cuttings
C-60	7590.0	PEEL	cuttings
C-60	8390.0	PEEL	cuttings
C-60	8530.0	PEEL	cuttings
ARCTIC RED G-55 (6644/13309)			
G-55	400.0	IMPERIAL	cuttings
G-55	900.0	IMPERIAL	cuttings
G-55	2600.0	IMPERIAL	cuttings
G-55	3700.0	CANOL (W)	cuttings
G-55	3800.0	CANOL (W)	cuttings
G-55	7600.0	MOUNT KINDLE	cuttings
ARROWHEAD I-46 (6045/12222)			
I-46	440.0	FORT ST. JOHN	cuttings
I-46	1030.0	FORT ST. JOHN	cuttings
I-46	1276.0	FORT ST. JOHN	core
I-46	1279.0	FORT ST. JOHN	core
I-46	1280.0	FORT ST. JOHN	core
I-46	1294.0	FORT ST. JOHN	core
I-46	1620.0	FORT ST. JOHN	cuttings
I-46	2000.0	EXSHAW	cuttings
I-46	2220.0	KOTCHO	cuttings
I-46	2700.0	KOTCHO	cuttings
I-46	3410.0	TROUT RIVER	cuttings

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
I-46	4117.0	JEAN MARIE	core
I-46	4123.0	JEAN MARIE	core
I-46	4128.0	JEAN MARIE	core
I-46	4135.0	JEAN MARIE	core
I-46	4150.0	JEAN MARIE	core
I-46	4155.0	JEAN MARIE	core
I-46	4164.5	JEAN MARIE	core
I-46	6097.0	MUSKWA	core
I-46	6101.5	MUSKWA	core
I-46	6114.0	MUSKWA	core
I-46	6123.0	MUSKWA	core
I-46	6130.6	MUSKWA	core
I-46	6136.5	MUSKWA	core
I-46	6136.5	MUSKWA	core
I-46	6497.0	SLAVE PT - SULPH. PT	core
I-46	6497.0	SLAVE PT - SULPH. PT	core
I-46	6497.0	SLAVE PT - SULPH. PT	core
I-46	6499.5	SLAVE PT - SULPH. PT	core
I-46	6501.5	SLAVE PT - SULPH. PT	core
I-46	6521.0	SLAVE PT - SULPH. PT	core
I-46	6544.5	SLAVE PT - SULPH. PT	core
I-46	6747.5	LONELY BAY	core
I-46	6756.5	LONELY BAY	core
I-46	6842.0	LONELY BAY	core
I-46	6844.0	LONELY BAY	core
I-46	7050.0	LOWER CHINCHAGA	core
I-46	7062.0	LOWER CHINCHAGA	core
I-46	7067.0	LOWER CHINCHAGA	core
I-46	7074.0	LOWER CHINCHAGA	core
I-46	7076.0	LOWER CHINCHAGA	core
BELOT H. M-63 (6702/12627)			
M-63	300.0	BEAR ROCK	cuttings
M-63	3400.0	MOUNT CAP	cuttings
BLACKWATER I-54 (6433/12239)			
I-54A	800.0	HUME	cuttings
BLACKWATER LAKE G-52 (6401/12255)			
G-52	4400.0	MOUNT KINDLE	cuttings
G-52	4806.0	MOUNT KINDLE	core
G-52	4809.0	MOUNT KINDLE	core
G-52	4825.0	MOUNT KINDLE	core
G-52	4828.0	MOUNT KINDLE	core
G-52	4829.5	MOUNT KINDLE	core
G-52	4830.0	MOUNT KINDLE	core
G-52	5400.0	FRANKLIN MOUNTAIN	cuttings
BLUEBERRY CREEK K-53 (6442/12625)			
K-53	325.0	CRETACEOUS	cuttings
K-53	2245.0	CANOL (E)	cuttings
K-53	2345.0	HARE INDIAN/BLUE F.	cuttings
BLUEFISH 1A (6456/12550)			
1A	840.0	SLATER RIVER	core

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
1	1087.0	SLATER RIVER	core
1A	1228.0	SLATER RIVER	core
1A	1241.0	SLATER RIVER	core
1A	1640.0	IMPERIAL	core
1A	2057.0	HARE INDIAN	core
1A	2453.0	BLUEFISH	core
BLUEFISH A-49 (6458/12552)			
A-49	1066.3	IMPERIAL	cuttings
A-49	1164.7	IMPERIAL	cuttings
A-49	1443.6	CANOL	cuttings
A-49	1738.8	BLUEFISH	cuttings
A-49	1786.4	HUME	core
A-49	1786.0	HUME (DEV.)	BIT. EXTRACT core
A-49	1786.0	HUME	BIT. EXTRACT core
BLUEFISH K-71 (6450/12559)			
A-71	100.0	DRIFT	cuttings
K-71	1200.0	SLATER RIVER	cuttings
K-71	1260.0	SLATER RIVER	cuttings
K-71	1300.0	SLATER RIVER	cuttings
K-71	1305.0	SLATER RIVER	cuttings
K-71	1400.0	SLATER RIVER	cuttings
K-71	1600.0	SLATER RIVER	cuttings
K-71	1970.0	SLATER RIVER	cuttings
K-71	2300.0	IMPERIAL	cuttings
K-71	2600.0	IMPERIAL	cuttings
K-71	2610.0	IMPERIAL	cuttings
K-71	3550.0	IMPERIAL	cuttings
K-71	3780.0	IMPERIAL	cuttings
K-71	4020.0	CANOL (E)	cuttings
K-71	4000.0	CANOL (E)	cuttings
K-71	4100.0	CANOL (E)	cuttings
K-71	4130.0	CANOL (E)	cuttings
K-71	4290.0	HARE INDIAN	cuttings
K-71	4340.0	BLUEFISH	cuttings
K-71	4130.0	CANOL (E)	cuttings
BRACKETT C-21 (6510/12505)			
C-21	400.0	CRETACEOUS	cuttings
C-21	920.0	CRETACEOUS	cuttings
C-21	1010.0	CRETACEOUS	cuttings
C-21	1080.0	CRETACEOUS	cuttings
C-21	1140.0	CANOL (E)	cuttings
C-21	1190.0	CANOL (E)	cuttings
C-21	1200.0	CANOL (E)	cuttings
C-21	1350.0	HARE INDIAN	cuttings
C-21	1400.0	HARE INDIAN	cuttings
C-21	1460.0	HARE INDIAN	cuttings
C-21	1950.0	BLUEFISH	cuttings
C-21	2000.0	BLUEFISH	cuttings
C-21	2050.0	BLUEFISH	cuttings
C-21	3100.0	TSETSO	cuttings
CAMERON HILLS A-05 (6004/11730)			

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
A-05	4160.0	HAY RIVER	cuttings
A-05	4210.0	HAY RIVER	cuttings
A-05	4250.0	HAY RIVER	cuttings
A-05	4310.0	HAY RIVER	cuttings
A-05	4350.0	HAY RIVER	cuttings
A-05	4453.0	SLAVE POINT	core
A-05	4454.0	SLAVE POINT	core
A-05	4458.0	SLAVE POINT	core
A-05	4477.0	SLAVE POINT	core
A-05	4490.0	SLAVE POINT	core
A-05	4501.5	SLAVE POINT	core
A-05	4502.0	SLAVE POINT	core
A-05	4503.0	SLAVE POINT	core
A-05	4937.0	KEG RIVER	core
A-05	4942.0	KEG RIVER	core
A-05	4943.0	KEG RIVER	core
CANYON CREEK #1 (6510/12618)			
CC#1	1862.0	CANOL (W)	core
CC#1	1865.0	CANOL (W)	core
CC#1	1869.0	CANOL (W)	core
CANYON CREEK #2			
CC#2	800.0	IMPERIAL	core
CC#2	1596.0	BLUEFISH	core
CC#2	1600.0	BLUEFISH	core
CC#2	1605.0	BLUEFISH	core
CARIBOU N-25 (6614/13450)			
N-25	480.0	IMPERIAL	cuttings
N-25	500.0	TUTTLE	cuttings
N-25	700.0	IMPERIAL	cuttings
N-25	900.0	IMPERIAL	cuttings
N-25	1050.0	IMPERIAL	cuttings
N-25	1470.0	IMPERIAL	cuttings
N-25	1500.0	IMPERIAL	cuttings
N-25	1600.0	IMPERIAL	cuttings
N-25	1700.0	IMPERIAL	cuttings
N-25	1770.0	IMPERIAL	cuttings
N-25	1890.0	IMPERIAL	cuttings
N-25	2100.0	IMPERIAL	cuttings
N-25	2500.0	IMPERIAL	cuttings
N-25	2900.0	IMPERIAL	cuttings
N-25	3390.0	IMPERIAL	cuttings
N-25	3500.0	IMPERIAL	cuttings
N-25	3680.0	IMPERIAL	cuttings
N-25	4100.0	IMPERIAL	cuttings
N-25	5200.0	ROAD RIVER	cuttings
N-25	4180.0	IMPERIAL	cuttings
N-25	4530.0	CANOL-LIKE SHALE	cuttings
N-25	4570.0	CANOL-LIKE SHALE	cuttings
N-25	4600.0	CANOL-LIKE SHALE	cuttings
N-25	4700.0	CANOL-LIKE SHALE	cuttings
N-25	4800.0	CANOL-LIKE SHALE	cuttings

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
N-25	4890.0	CANOL-LIKE SHALE	cuttings
N-25	5000.0	CANOL-LIKE SHALE	cuttings
N-25	5100.0	CANOL-LIKE SHALE	cuttings
N-25	5200.0	CANOL-LIKE SHALE	cuttings
N-25	5300.0	ROAD RIVER	cuttings
N-25	5600.0	ROAD RIVER	cuttings
N-25	5883.0	ROAD RIVER	cuttings
N-25	5940.0	ROAD RIVER	cuttings
N-25	6600.0	ROAD RIVER	cuttings
N-25	7200.0	ROAD RIVER	cuttings
N-25	7900.0	ROAD RIVER	cuttings
N-25	8100.0	ROAD RIVER	cuttings
N-25	8600.0	ROAD RIVER	cuttings
N-25	8700.0	ROAD RIVER	cuttings
N-25	8800.0	ROAD RIVER	cuttings
N-25	9050.0	ROAD RIVER	cuttings
N-25	9200.0	ROAD RIVER	cuttings
N-25	9600.0	UNNAMED DOLOMITE	cuttings
N-25	10200.0	UNNAMED DOLOMITE	cuttings
N-25	11000.0	UNNAMED DOLOMITE	cuttings
N-25	11000.0	UNNAMED DOLOMITE	cuttings
N-25	11200.0	UNNAMED DOLOMITE	cuttings
N-25	11360.0	SLATS CREEK	cuttings
N-25	11430.0	SLATS CREEK	cuttings
N-25	11640.0	SLATS CREEK	cuttings
CARTRIDGE F-72 (6311/12029)			
F-72	590.0	HORN RIVER (B)	cuttings
F-72	665.0	HORN RIVER (B)	core
F-72	669.0	HORN RIVER (B)	core
F-72	674.0	HORN RIVER (B)	core
F-72	679.0	HORN RIVER (B)	core
CLARE F-79 (6708/13314)			
F-79	852.0	IMPERIAL	core
F-79	1506.0	IMPERIAL	core
F-79	2189.0	IMPERIAL	core
F-79	2968.0	IMPERIAL	core
F-79	3845.0	CANOL (W)	core
F-79	3848.0	CANOL (W)	core
F-79	3850.0	CANOL (W)	core
F-79	3855.0	CANOL (W)	core
F-79	3922.0	CANOL (W)	core
F-79	3930.0	HUME	core
F-79	3998.0	HUME	core
F-79	4050.0	HUME	core
CLOVERLEAF I-46 (6355/12452)			
I-46	2170.0	SLATER RIVER	cuttings
I-46	2170.0	SLATER RIVER	cuttings
I-46	2400.0	SLATER RIVER	cuttings
I-46	2400.0	SLATER RIVER	cuttings
I-46	2690.0	IMPERIAL	cuttings
I-46	3720.0	IMPERIAL	cuttings
I-46	4700.0	IMPERIAL	cuttings

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
I-46	4800.0	CANOL (E)	cuttings
I-46	4900.0	CANOL (E)	cuttings
I-46	5000.0	CANOL (E)	cuttings
I-46	5170.0	CANOL (E)	cuttings
I-46	5400.0	HARE INDIAN	cuttings
I-46	5490.0	BLUEFISH	cuttings
COLLVILLE D-45 (6714/12509)			
D-45	2900.0	MOUNT CAP	cuttings
COLVILLE E-15 (6714/12618)			
E-15	3200.0	FRANKLIN MOUNTAIN	core
E-15	4590.0	FRANKLIN MOUNTAIN	core
CORM LAKE G-15 (6104/12202)			
G-15	3890.0	HORN RIVER (B)	cuttings
CRANSWICK A-22 (6531/13148)			
A-22	300.0	ARCTIC RED	cuttings
A-22	310.0	ARCTIC RED	cuttings
A-22	600.0	IMPERIAL	cuttings
A-22	700.0	IMPERIAL	cuttings
A-22	790.0	IMPERIAL	cuttings
A-22	1070.0	IMPERIAL	cuttings
A-22	1470.0	IMPERIAL	cuttings
A-22	1880.0	IMPERIAL	cuttings
A-22	2700.0	IMPERIAL	cuttings
A-22	2700.0	IMPERIAL	cuttings
A-22	2950.0	IMPERIAL	cuttings
A-22	3310.0	IMPERIAL	cuttings
A-22	3590.0	CANOL (W)	cuttings
A-22	3630.0	CANOL (W)	cuttings
A-22	3680.0	CANOL (W)	cuttings
A-22	3730.0	CANOL (W)	cuttings
A-22	3780.0	CANOL (W)	cuttings
A-22	3820.0	CANOL (W)	cuttings
A-22	3840.0	CANOL (W)	cuttings
CRANSWICK A-42 (6541/13307)			
A-42	500.0	ARCTIC RED	cuttings
A-42	2500.0	ARCTIC RED	cuttings
A-42	6950.0	CANOL (W)	cuttings
A-42	7000.0	CANOL (W)	cuttings
A-42	7050.0	CANOL (W)	cuttings
A-42	7080.0	CANOL (W)	cuttings
CROSSLEY LAKE S. K-60 (6830/12939)			
K-60	715.0	HARE INDIAN	core
K-60	800.0	HARE INDIAN	core
K-60	900.0	HARE INDIAN	core
K-60	1035.0	HARE INDIAN	core
K-60	1200.0	BLUEFISH	core
K-60	1215.0	BLUEFISH	core
K-60	1230.0	BLUEFISH	core

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
K-60	1240.0	BLUEFISH	core
K-60	1255.0	BLUEFISH	core
K-60	1260.0	BLUEFISH	core
K-60	1270.0	HUME (?)	core
K-60	1274.0	HUME (?)	core
K-60	1279.0	HUME (?)	core
K-60	1282.0	HUME (?)	core
K-60	1284.0	HUME (?)	core
K-60	1288.0	HUME (?)	core
D.F. STOTT1 (64/125 ?)			
ST1	0.0	CRETACEOUS	OUTCROP
D.F. STOTT2 (6341/12531)			
ST2	0.0	IMPERIAL	OUTCROP
ST2	0.0	IMPERIAL	OUTCROP
ST2	0.0	CANOL/HARE INDIAN	OUTCROP
ST2	0.0	CANOL/HARE INDIAN	OUTCROP
DAHADINNI D-65 (6354/12427)			
D-65	670.0	SLATER RIVER	cuttings
D-65	1020.0	SLATER RIVER	cuttings
D-65	1850.0	SLATER RIVER	cuttings
D-65	1920.0	IMPERIAL	cuttings
D-65	1930.0	IMPERIAL	cuttings
D-65	2410.0	IMPERIAL	cuttings
D-65	4250.0	CANOL (E)	cuttings
D-65	4300.0	CANOL (E)	cuttings
D-65	4400.0	CANOL (E)	cuttings
D-65	4470.0	CANOL (E)	cuttings
D-65	4900.0	HARE INDIAN	cuttings
D-65	5280.0	BLUEFISH	cuttings
D-65	5720.0	HARE INDIAN	cuttings
D-65	5800.0	BLUEFISH	cuttings
EAST MACKAY B-45 (6444/12538)			
B-45	3850.0	SLATER RIVER	cuttings
B-45	4010.0	FRANKLIN MTN.	DST OIL
EBBUTT D-50 (6219/12223)			
D-50	120.0	IMPERIAL	cuttings
D-50	604.0	IMPERIAL	cuttings
D-50	680.0	IMPERIAL	cuttings
D-50	1000.0	IMPERIAL	cuttings
D-50	1150.0	IMPERIAL	core
D-50	1165.0	IMPERIAL	core
D-50	1300.0	IMPERIAL	cuttings
D-50	1431.0	IMPERIAL	core
D-50	1450.0	IMPERIAL	core
D-50	1461.0	HORN RIVER (B)	core
D-50	1480.0	HORN RIVER (B)	core
D-50	1482.5	HORN RIVER (B)	core
D-50	1489.0	HORN RIVER (B)	core
D-50	1510.0	HORN RIVER (B)	core
D-50	1530.0	HORN RIVER (B)	core

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
D-50	1600.0	HORN RIVER (B)	core
D-50	1900.0	NAHANNI	core
D-50	2100.0	NAHANNI	core
D-50	2150.0	NAHANNI	core
EBBUTT J-05 (6224/12215)			
J-05	690.0	CRETACEOUS	cuttings
J-05	1010.0	CRETACEOUS	cuttings
J-05	1610.0	IMPERIAL	cuttings
J-05	1910.0	IMPERIAL	cuttings
J-05	2100.0	HORN RIVER (B)	cuttings
J-05	2150.0	HORN RIVER (B)	cuttings
FISH LAKE G-60 (6309/12255)			
G-60	1400.0	CANOL (E)	cuttings
G-60	1500.0	CANOL (E)	cuttings
G-60	1580.0	CANOL (E)	cuttings
G-60	1610.0	CANOL (E)	cuttings
G-60	1640.0	HARE INDIAN	cuttings
FOETUS LAKE #1 (6055/11831)			
FL#1	2597.0	PINE POINT	core
FL-1	2660.0	PINE POINT	BIT. EXTRACT core
FORT SIMPSON M-70 (6159/1?227)			
M-70	1710.0	HORN RIVER (B)	cuttings
M-70	1730.0	HORN RIVER (B)	cuttings
M-70	1738.0	HORN RIVER (B)	cuttings
M-70	1950.0	NAHANNI	core
M-70	2156.4	NAHANNI	core
M-70	2163.5	NAHANNI	core
M-70	2171.0	NAHANNI	core
M-70	2180.0	NAHANNI	core
M-70	2181.0	NAHANNI	core
M-70	2189.0	NAHANNI	core
M-70	2194.0	NAHANNI	core
M-70	2295.5	LANDRY	core
M-70	4320.0	PROTEROZOIC ??	cuttings
M-70	4340.0	PROTEROZOIC ??	cuttings
GOOSE ISL L-57 (6516/12656)			
L-57	1300.0	IMPERIAL	cuttings
L-57	1700.0	CANOL (E)	cuttings
GRANDVIEW HILL #1 (6706/13053)			
GH#1	400.0	IMPERIAL	cuttings
GH#1	775.0	CANOL (E)	core
GH#1	775.0	CANOL (E)	core
GH#1	777.0	CANOL (E)	core
GH#1	777.0	CANOL (E)	core
GH#1	780.0	CANOL (E)	core
GH#1	780.0	CANOL (E)	core
GH#1	800.0	CANOL (E)	cuttings
GH#1	1600.0	HUME	cuttings
GH#1	1700.0	HUME	core

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
GH#1	2200.0	LANDRY	cuttings
GH#1	2800.0	ARNICA	cuttings
HARRIS RIVER A-31 (6230/12006)			
A-31	540.0	HORN RIVER (B)	cuttings
A-31	570.0	HORN RIVER (B)	cuttings
A-31	640.0	HORN RIVER (B)	cuttings
A-31	680.0	HORN RIVER (B)	cuttings
A-31	710.0	HORN RIVER (B)	cuttings
A-31	994.5	WILLOW LAKE	core
A-31	1000.0	WILLOW LAKE	core
A-31	1002.5	WILLOW LAKE	core
A-31	2050.0	MOUNT KINDLE	cuttings
HIGHLAND LAKE I-23 (6232/12219)			
I-23	490.0	CRETACEOUS	cuttings
I-23	790.0	CRETACEOUS	cuttings
I-23	1690.0	IMPERIAL	cuttings
I-23	1790.0	HORN RIVER (B)	cuttings
I-23	1840.0	HORN RIVER (B)	cuttings
HOOSIER RIDGE #1 (6524/12732)			
HR#1	1020.0	BLUEFISH	core
HR#1	1020.0	BLUEFISH	core
HR#1	1023.0	BLUEFISH	core
HR#1	1023.0	BLUEFISH	core
HOOSIER RIDGE #2 (6525/12732)			
HR#2	2052.0	BLUEFISH	core
HR#2	2070.0	BLUEFISH	core
HR#2	2090.0	BLUEFISH	core
HR#2	2124.0	BLUEFISH	core
HR#2	2129.0	BLUEFISH	core
HR#2	2131.0	BLUEFISH	core
HR#2	2133.0	BLUEFISH	core
HR#2	2135.0	BLUEFISH	core
HR#2	2135.0	BLUEFISH	core
HORTON G-02 (6951/12715)			
G-02	1530.0	GILMORE LAKE	cuttings
G-02	2300.0	BLUEFISH	cuttings
G-02	4400.0	PEEL	cuttings
JOHNSON A-12 (6331/12402)			
A-12	2050.0	CANOL (E)	cuttings
A-12	2090.0	CANOL (E)	cuttings
A-12	2120.0	HARE INDIAN	cuttings
A-12	2165.0	HARE INDIAN	cuttings
A-12	2191.0	HARE INDIAN	core
A-12	2200.0	HARE INDIAN	core
A-12	2209.0	HARE INDIAN	cuttings
A-12	2600.0	HARE INDIAN	cuttings
A-12	2790.0	HARE INDIAN	cuttings
A-12	2990.0	HARE INDIAN	cuttings
A-12	3190.0	HARE INDIAN	cuttings

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
A-12	3210.0	BLUEFISH	cuttings
KAKISKA LAKE L-19 (6058/11803)			
L-19	2168.0	EVIE (like)	core
KEELE A-28 (6407/12504)			
A-28	7500.0	IMPERIAL	cuttings
A-28	7800.0	CANOL (E)	cuttings
KEELE A-28 (6407/12504)			
A-28	200.0	SUMMIT CREEK	cuttings
A-28	1300.0	EAST FORK	cuttings
A-28	1800.0	LITTLE BEAR	cuttings
A-28	2600.0	SLATER RIVER	cuttings
A-28	3500.0	SLATER RIVER	cuttings
A-28	5300.0	IMPERIAL	cuttings
A-28	6800.0	IMPERIAL	cuttings
A-28	7900.0	CANOL (E)	cuttings
A-28	7910.0	CANOL (E)	cuttings
A-28	8000.0	CANOL (E)	cuttings
A-28	8070.0	CANOL (E)	cuttings
A-28	8140.0	CANOL (E)	cuttings
A-28	8250.0	HARE INDIAN	cuttings
A-28	8350.0	HARE INDIAN	cuttings
A-28	8400.0	BLUEFISH	cuttings
A-28	8450.0	BLUEFISH	cuttings
A-28	9800.0	ARNICA	cuttings
KEELE E-19 (6408/12503)			
E-19	918.0	LITTLE BEAR	cuttings
E-19	3034.0	SLATER RIVER	cuttings
E-19	3346.0	IMPERIAL	cuttings
E-19	4100.0	IMPERIAL	cuttings
E-19	5084.0	IMPERIAL	cuttings
KUGALUK N-02 (6831/13131)			
N-02	604.0	CANOL (W)	core
N-02	2685.0	CANOL (W)	core
N-02	2703.0	CANOL (W)	core
N-02	2746.0	CANOL (W)	core
N-02	2796.0	CANOL (W)	core
N-02	2840.0	CANOL (W)	core
N-02	2875.0	CANOL (W)	core
N-02	2922.0	CANOL (W)	core
N-02	2929.0	CANOL (W)	core
LAFERTE RIVER M-16 (6145/11833)			
M-16	604.0	FORT SIMPSON	cuttings
M-16	604.0	FORT SIMPSON	cuttings
M-16	990.0	HORN RIVER (A)	cuttings
M-16	1031.0	HORN RIVER (A)	core
M-16	1074.0	HORN RIVER (A)	core
M-16	1166.0	HORN RIVER (A)	core
M-16	1180.0	EVIE	core

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
LITTLE BEAR I-70 (6439/12556)			
I-70	5450.0	SLATER RIVER (CRET)	cuttings
LOON CREEK #1 (6511/12654)			
LC#1	385.0	CRETACEOUS	core
LC#1	482.0	CRETACEOUS	core
LC#1	526.0	CRETACEOUS	core
LC#1	2912.0	HARE INDIAN	core
M.P. CECILE 1 (6414/13019)			
CE1	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 10 (6428/12630)			
CE10	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE10	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 11 (6354/12755)			
CE11	0.0	IMPERIAL	OUTCROPPING
CE11	0.0	IMPERIAL	OUTCROPPING
M.P. CECILE 12 (6443/12915)			
CE12	0.0	HUME	OUTCROPPING
CE12	0.0	HUME	OUTCROPPING
M.P. CECILE 13 (6449/12909)			
CE13	0.0	HUME	OUTCROPPING
M.P. CECILE 2 (6437/12918)			
CE2	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 3 (6438/13049)			
CE3	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 4 (6452/13025)			
CE4	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE4	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 5 (6517/12916)			
CE5	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE5	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 6 (6522/13045)			
CE6	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE6	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 7 (6519/13112)			
CE7	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 7 (6519/13112)			
CE7	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 8 (6642/13547)			
CE8	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE8	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE8	0.0	CANOL-HARE INDIAN	OUTCROPPING

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
CE8	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE8	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE8	0.0	CANOL-HARE INDIAN	OUTCROPPING
M.P. CECILE 9 (6424/12730)			
CE9	0.0	CANOL-HARE INDIAN	OUTCROPPING
CE9	0.0	CANOL-HARE INDIAN	OUTCROPPING
MACKENZIE RIVER #1 (6516/12653)			
G-47	1445.0	CANOL (E)	core
G-47	1446.5	CANOL (E)	core
G-47	1448.0	CANOL (E)	core
G-47	1450.0	CANOL (E)	core
G-47	1452.0	CANOL (E)	core
G-47	1454.5	CANOL (E)	core
G-47	1456.0	CANOL (E)	core
G-47	1459.0	CANOL (E)	core
G-47	1460.0	CANOL (E)	core
G-47	1461.0	CANOL (E)	core
G-47	1464.5	CANOL (E)	core
G-47	1466.0	CANOL (E)	core
G-47	1468.5	CANOL (E)	core
G-47	1472.0	CANOL (E)	core
G-47	1473.0	CANOL (E)	core
G-47	1476.5	CANOL (E)	core
G-47	1480.0	CANOL (E)	core
G-47	1481.0	CANOL (E)	core
G-47	1482.5	CANOL (E)	core
G-47	1485.5	CANOL (E)	core
G-47	1475.0	CANOL (E)	core
G-47	1475.0	CANOL (E)	core
MACKENZIE RIVER #4 (6516/12650)			
E-27	1305.5	CANOL (E)	core
E-27	1306.5	CANOL (E)	core
E-27	1306.7	CANOL (E)	core
E-27	1307.0	CANOL (E)	core
E-27	1307.5	CANOL (E)	core
E-27	1309.0	CANOL (E)	core
E-27	1309.5	CANOL (E)	core
E-27	1310.0	CANOL (E)	core
E-27	1311.0	CANOL (E)	core
E-27	1311.2	CANOL (E)	core
E-27	1311.7	CANOL (E)	core
E-27	1312.9	CANOL (E)	core
E-27	1314.0	CANOL (E)	core
E-27	1315.5	CANOL (E)	core
E-27	1316.5	CANOL (E)	core
E-27	1318.5	CANOL (E)	core
MAIDA CK G-56 (6536/12810)			
G-56	200.0	CRETACEOUS	cuttings
G-56	1000.0	IMPERIAL	cuttings
G-56	1400.0	IMPERIAL	cuttings
G-56	1698.0	CANOL (E)	core

WELL	DEPTH(ft)	FORMATION/AGE		SAMPLE TYPE
G-56	1700.0	CANOL (E)		core
G-56	1700.0	CANOL (E)		core
G-56	1716.0	CANOL (E)		core
G-56	1727.0	CANOL (E)		core
G-56	1734.0	CANOL (E)		core
G-56	1800.0	KEE SCARP		core
MARTIN HOUSE L-50 (6649/13324)				
L-50	4410	CANOL (W)		cuttings
MILLS LAKE A-70 (6109/11756)				
A-70	2100.0	EVIE	DEV.	core
A-70	2101.0	EVIE	DEV.	core
A-70	2103.5	EVIE	DEV.	core
A-70	2114.0	LONELY BAY	DEV.	BLEEDING OIL core
A-70	2118.0	LONELY BAY	DEV.	BLEEDING OIL core
A-70	2125.0	LONELY BAY		core
A-70	2125.5	LONELY BAY	DEV.	core
A-70	2127.5	LONELY BAY	DEV.	core
MILLS LAKE B-75 (6114/11728)				
B-75	1454.0	EVIE		core
B-75	1455.5	EVIE		core
B-75	1460.0	EVIE		core
B-75	1460.0	EVIE		core
B-75	1464.5	EVIE		core
B-75	1464.5	EVIE		core
B-75	1470.7	EVIE		core
B-75	1474.7	EVIE		core
MINK LAKE I-38 (6137/11735)				
I-38	875.0	HORN RIVER (A)		core
I-38	904.0	HORN RIVER (A)		BLEEDING OIL core
I-38	911.0	HORN RIVER (A)		core
McPHERSON B-25 (6714/13534)				
B-25	600.0	ARCTIC RED		cuttings
B-25	1400.0	ARCTIC RED		cuttings
B-25	2200.0	RAT RIVER (?)		cuttings
B-25	2800.0	RAT RIVER (?)		cuttings
B-25	3500.0	IMPERIAL		cuttings
B-25	4000.0	IMPERIAL		cuttings
B-25	4800.0	IMPERIAL		cuttings
B-25	7400.0	IMPERIAL		cuttings
B-25	7700.0	IMPERIAL		cuttings
B-25	9500.0	IMPERIAL		cuttings
McPHERSON C-78 (6737/13414)				
C-78	1600.0	IMPERIAL		cuttings
C-78	1600.0	IMPERIAL		cuttings
C-78	3000.0	IMPERIAL		cuttings
NE TATHLINA LAKE #1 (6046/11719)				
TL-1	2150.0	SULPHUR POINT		EXT. BITUMEN core

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
NEVEJO M-05 (6714/13401)			
M-05	5460.0	CANOL (W)	cuttings
NORMAN WELLS 36X (6517/12653)			
B-48	1221.0	CANOL (E)	core
B-48	1221.5	CANOL (E)	core
B-48	1222.8	CANOL (E)	core
NORMAN WELLS 36X (6517/12653)			
B-48	1224.4	CANOL (E)	core
B-48	1224.8	CANOL (E)	core
B-48	1228.4	CANOL (E)	core
B-48	1230.0	CANOL (E)	core
B-48	1369.0	CANOL (E)	core
NORMAN WELLS UN1267			
B-28		KEE SCARP (DEV)	OIL
B-28		KEE SCARP	OIL
ONTADEK N-39 (6618/12821)			
N-39	600.0	HUME	cuttings
ONTARATUE H-34 (6623/13205)			
H-34	130.0	ARCTIC RED	cuttings
H-34	360.0	ARCTIC RED	cuttings
H-34	700.0	ARCTIC RED	cuttings
H-34	1000.0	IMPERIAL	cuttings
H-34	1300.0	IMPERIAL	cuttings
H-34	1600.0	IMPERIAL	cuttings
H-34	1960.0	IMPERIAL	cuttings
H-34	2190.0	IMPERIAL	cuttings
H-34	2480.0	IMPERIAL	cuttings
H-34	2760.0	IMPERIAL	cuttings
H-34	2960.0	CANOL (W)	cuttings
H-34	3010.0	CANOL (W)	cuttings
H-34	3060.0	CANOL (W)	cuttings
H-34	3110.0	CANOL (W)	cuttings
H-34	3160.0	CANOL (W)	cuttings
H-34	3180.0	CANOL (W)	cuttings
H-34	3210.0	CANOL (W)	cuttings
H-34	3220.0	CANOL (W)	cuttings
H-34	3420.0	HUME	cuttings
H-34	3620.0	LANDRY	cuttings
H-34	3780.0	LANDRY	cuttings
H-34	3990.0	LANDRY	cuttings
H-34	6500.0	MOUNT KINDLE	cuttings
H-34	8730.0	FRANKLIN MOUNTAIN	cuttings
H-34	9000.0	FRANKLIN MOUNTAIN	cuttings
H-34	9090.0	FRANKLIN MOUNTAIN	cuttings
H-34	9300.0	PRECAMBRIAN	cuttings
H-34	9488.5	PRECAMBRIAN	core
H-34	9491.0	PRECAMBRIAN	core
H-34	9493.0	PRECAMBRIAN	core
H-34	9496.5	PRECAMBRIAN	core

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
H-34	10009.0	PRECAMBRIAN	core
H-34	10015.0	PRECAMBRIAN	core
H-34	10020.0	PRECAMBRIAN	core
H-34	10400.0	PRECAMBRIAN	cuttings
H-34	10603.0	PRECAMBRIAN	core
H-34	10607.0	PRECAMBRIAN	core
H-34	10612.0	PRECAMBRIAN	core
H-34	10619.0	PRECAMBRIAN	core
H-34	10860.0	PRECAMBRIAN	cuttings
H-34	11100.0	PRECAMBRIAN	cuttings
H-34	11348.0	PRECAMBRIAN	core
H-34	11590.0	PRECAMBRIAN	cuttings
H-34	11900.0	PRECAMBRIAN	cuttings
H-34	12200.0	PRECAMBRIAN	cuttings
H-34	12610.0	PRECAMBRIAN	cuttings
H-34	13010.0	PRECAMBRIAN	cuttings
H-34	13300.0	PRECAMBRIAN	cuttings
H-34	3800.0	LANDRY	cuttings
ONTARATUE I-38 (6617/13151)			
I-38	2980.0	CANOL (W)	cuttings
I-38	3220.0	CANOL (W)	cuttings
ONTARATUE K-04 (6633/13046)			
K-04	100.0	ARCTIC RED	cuttings
K-04	300.0	ARCTIC RED	cuttings
K-04	410.0	ARCTIC RED	cuttings
K-04	500.0	IMPERIAL	cuttings
K-04	750.0	IMPERIAL	cuttings
K-04	880.0	CANOL (E)	cuttings
K-04	900.0	CANOL (E)	cuttings
K-04	910.0	CANOL (E)	cuttings
K-04	930.0	CANOL (E)	cuttings
K-04	400.0	ARCTIC RED	cuttings
K-04	940.0	CANOL (E)	cuttings
K-04	1100.0	HARE INDIAN	cuttings
K-04	1310.0	HARE INDIAN	cuttings
K-04	1600.0	HARE INDIAN	cuttings
K-04	1640.0	HUME	cuttings
K-04	1650.0	HUME	cuttings
K-04	1660.0	HUME	cuttings
K-04	1890.0	HUME	cuttings
K-04	2380.0	LANDRY	cuttings
K-04	3280.0	ARNICA	cuttings
K-04	7750.0	FRANKLIN MOUNTAIN	cuttings
K-04	8092.5	SALINE RIVER	core
K-04	8300.0	SALINE RIVER	cuttings
K-04	8500.0	PROTEROZOIC	cuttings
K-04	8768.5	PROTEROZOIC	core
K-04	8779.0	PROTEROZOIC	core
PEEL D-64 (6553/13227)			
D-64	2200.0	ARCTIC RED	cuttings
D-64	2500.0	ARCTIC RED	cuttings
D-64	4300.0	IMPERIAL	cuttings

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
PEEL F-37 (6656/13451)			
F-37	300.0	ARCTIC RED	cuttings
F-37	1500.0	TUTTLE	cuttings
F-37	3000.0	TUTTLE	cuttings
F-37	4600.0	IMPERIAL	cuttings
F-37	6200.0	IMPERIAL	cuttings
F-37	7520.0	CANOL (W)	cuttings
PEEL RIVER I-21 (6610/13418)			
I-21	4660.0	CANOL W	cuttings
I-21	4680.0	CANOL W	cuttings
I-21	4710.0	CANOL W	cuttings
I-21	4740.0	CANOL W	cuttings
I-21	4750.0	CANOL W	cuttings
I-21	6580.0	CANOL W	cuttings
PEEL RIVER M-69 (6608/13358)			
M-69	120.0	ARCTIC RED	cuttings
M-69	300.0	ARCTIC RED	cuttings
M-69	370.0	ARCTIC RED	cuttings
M-69	850.0	ARCTIC RED	cuttings
M-69	1010.0	ARCTIC RED	cuttings
M-69	1290.0	ARCTIC RED	cuttings
M-69	1400.0	ARCTIC RED	cuttings
M-69	1480.0	ARCTIC RED	cuttings
M-69	1860.0	ARCTIC RED	cuttings
M-69	2220.0	ARCTIC RED	cuttings
M-69	2350.0	ARCTIC RED	cuttings
M-69	2560.0	ARCTIC RED	cuttings
M-69	2910.0	MARTIN HILLS	cuttings
M-69	2940.0	MARTIN HILLS	cuttings
M-69	3180.0	IMPERIAL	cuttings
M-69	3190.0	IMPERIAL	cuttings
M-69	3520.0	IMPERIAL	cuttings
M-69	3700.0	IMPERIAL	cuttings
M-69	4200.0	IMPERIAL	cuttings
M-69	4380.0	IMPERIAL	cuttings
M-69	4640.0	IMPERIAL	cuttings
M-69	4860.0	IMPERIAL	cuttings
M-69	5140.0	IMPERIAL	cuttings
M-69	5400.0	IMPERIAL	cuttings
M-69	5600.0	IMPERIAL	cuttings
M-69	5790.0	IMPERIAL	cuttings
M-69	6000.0	IMPERIAL	cuttings
M-69	6210.0	IMPERIAL	cuttings
M-69	6400.0	IMPERIAL	cuttings
M-69	6680.0	IMPERIAL	cuttings
M-69	6920.0	IMPERIAL	cuttings
M-69	7340.0	IMPERIAL	cuttings
M-69	7490.0	CANOL W	cuttings
M-69	7510.0	CANOL W	cuttings
M-69	7540.0	CANOL W	cuttings
POINT SEPERATION #1 (6734/13400)			

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
PS#1	5175.0	CANOL (W)	core
PS#1	5179.0	CANOL (W)	core
PS#1	5185.0	CANOL (W)	core
PS#1	5190.0	CANOL (W)	core
PS#1	5196.0	CANOL (W)	core
PROVIDENCE K-45 (6134/11747)			
K-45	468.5	HORN RIVER A	core
K-45	605.0	HORN RIVER A	core
K-45	636.0	HORN RIVER A	core
K-45	672.0	HORN RIVER A	core
K-45	691.0	HORN RIVER A	core
K-45	715.0	HORN RIVER A	core
K-45	725.0	HORN RIVER	OIL
K-45	741.0	HORN RIVER A	core
K-45	768.0	HORN RIVER A	core
K-45	817.0	EVIE DEV.	core
K-45	826.5	EVIE DEV.	core
K-45	827.0	EVIE DEV.	core
K-45	827.5	EVIE DEV.	core
K-45	841.0	EVIE DEV.	core
K-45	856.0	LONELY BAY DEV.	core
K-45	835.0	EVIE DEV.	core
RABBITSKIN I-08 (6137/11930)			
I-08	1362.0	FT. SIMPSON DEV.	core
I-08	1382.0	HORN RIVER B	core
I-08	1390.0	HORN RIVER B	core
I-08	1409.0	HORN RIVER B	core
RAMPARTS A-59 (6528/13039)			
A-59	900.0	ARCTIC RED	cuttings
A-59	1400.0	ARCTIC RED	cuttings
A-59	1800.0	ARCTIC RED	cuttings
A-59	3500.0	ARCTIC RED	cuttings
A-59	6300.0	IMPERIAL	cuttings
A-59	6690.0	CANOL W	cuttings
A-59	6800.0	CANOL W	cuttings
A-59	6900.0	CANOL W	cuttings
A-59	6970.0	CANOL W	cuttings
A-59	7040.0	HARE INDIAN	cuttings
A-59	7130.0	BLUEFISH	cuttings
A-59	7400.0	HUME	cuttings
RAMPARTS I-77 (6526/13558)			
I-77	2220.0	CANOL W	cuttings
I-77	2300.0	CANOL W	cuttings
I-77	2350.0	CANOL W	cuttings
I-77	2420.0	CANOL W	cuttings
I-77	2480.0	CANOL W	cuttings
I-77	2550.0	CANOL W	cuttings
I-77	2570.0	CANOL W	cuttings
RAT PASS K-35 (6754/13521)			
K-35	200.0	TERTIARY	cuttings

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
K-35	2400.0	ROAD RIVER	cuttings
K-35	3200.0	ROAD RIVER	cuttings
K-35	3400.0	ROAD RIVER	cuttings
K-35	4200.0	ROAD RIVER	cuttings
K-35	5980.0	ROAD RIVER	cuttings
REDSTONE #1 (6411/12438)			
RS#1	430.0	LITTLE BEAR	cuttings
RS#1	604.0	SLATER RIVER	cuttings
RS#1	1370.0	SLATER RIVER	cuttings
RS#1	1600.0	SLATER RIVER	cuttings
RS#1	1667.0	SLATER RIVER	core
RS#1	1860.0	CANOL E	cuttings
RS#1	2065.0	HARE INDIAN	core
RS#1	2074.0	HARE INDIAN	core
ROND LAKE #2 (6704/12828)			
RL#2	130.0	HARE INDIAN	cuttings
RL#2	240.0	HARE INDIAN	cuttings
RL#2	320.0	HARE INDIAN	cuttings
RL#2	400.0	HARE INDIAN	cuttings
RL#2	460.0	BLUEFISH	cuttings
ROOT RIVER I-6 (6239/12324)			
I-60	3535.5	ARNICA	core
I-60	3547.5	ARNICA	core
I-60	3550.5	ARNICA	core
RUSSEL M-07 (6526/12331)			
M-07	200.0	QUATER-CRET (?)	OIL SAND cuttings
SAINVILLE RIVER D-08 (6617/13331)			
D-08	5650	CANOL (W)	cuttings
SANS SAULT #1 (6543/12849)			
SS#1	1410.0	CANOL(?)	core
SS#1	1410.0	CANOL(?)	core
SS#1	4120.0	CANOL(?)	core
SS#1	4120.0	CANOL(?)	core
SATAH RIVER G-72 (6651/13413)			
G-72	5950.0	IMPERIAL	cuttings
G-72	6010.0	CANOL	cuttings
G-72	6060.0	CANOL	cuttings
G-72	6110.0	CANOL	cuttings
G-72	6150.0	CANOL	cuttings
SHOALS C-31 (6550/12851)			
C-31	1600.0	HARE INDIAN	cuttings
C-31	1900.0	HARE INDIAN	cuttings
C-31	2300.0	BLUEFISH	cuttings
SIBB LAKE G-24 (6133/12234)			
G-24	1600.0	HORN RIVER B	cuttings

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
SILVAN PLATEAU G-51 (6350/12525)			
G-51	130.0	IMPERIAL	cuttings
G-51	210.0	IMPERIAL	cuttings
G-51	300.0	IMPERIAL	cuttings
G-51	410.0	IMPERIAL	cuttings
G-51	604.0	IMPERIAL	cuttings
G-51	640.0	IMPERIAL	cuttings
G-51	640.0	IMPERIAL	cuttings
G-51	750.0	IMPERIAL	cuttings
G-51	800.0	IMPERIAL	cuttings
G-51	1130.0	IMPERIAL	cuttings
G-51	1130.0	IMPERIAL	cuttings
G-51	1200.0	IMPERIAL	cuttings
G-51	1510.0	IMPERIAL	cuttings
G-51	1750.0	IMPERIAL	cuttings
SILVAN PLATEAU G-51 (6350/12525)			
G-51	1950.0	IMPERIAL	cuttings
G-51	2140.0	IMPERIAL	cuttings
G-51	2250.0	CANOL E	cuttings
G-51	2250.0	CANOL E	cuttings
G-51	2310.0	CANOL E	cuttings
G-51	2450.0	CANOL E	cuttings
G-51	2450.0	CANOL E	cuttings
G-51	2530.0	CANOL E	cuttings
G-51	2600.0	CANOL E	cuttings
G-51	2680.0	CANOL E	cuttings
G-51	2730.0	CANOL E	cuttings
G-51	2840.0	HARE INDIAN	cuttings
G-51	2960.0	BLUEFISH	cuttings
G-51	3060.0	BLUEFISH	cuttings
G-51	3470.0	NAHANNI	cuttings
G-51	3690.0	NAHANNI	cuttings
G-51	4250.0	LANDRY	cuttings
G-51	4360.0	LANDRY	cuttings
G-51	4530.0	LANDRY	cuttings
G-51	4770.0	ARNICA	cuttings
SOUTH PEEL D-64 (6553/13227)			
D-64	5080.0	CANOL (W)	cuttings
STEWART B-30 (6419/12519)			
B-30	5280.0	SLATER RIVER	cuttings
B-30	5310.0	SLATER RIVER (CRET)	cuttings
B-30	5670.0	CANOL E	cuttings
B-30	5900.0	BLUEFISH	cuttings
STONY I-50 (6729/13522)			
I-50	510.0	ARCTIC RED	cuttings
I-50	1100.0	IMPERIAL	cuttings
I-50	2200.0	IMPERIAL	cuttings
I-50	2590.0	IMPERIAL	core
I-59	3600.0	IMPERIAL	cuttings
I-50	3645.0	IMPERIAL	core
I-50	4617.0	IMPERIAL	core

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
I-50	4900.0	IMPERIAL	cuttings
I-50	5758.0	IMPERIAL	core
I-50	6790.0	IMPERIAL	core
I-50	6914.0	IMPERIAL	core
I-50	6990.0	CANOL W	core
I-50	7432.0	LANDRY	core
STRONG POINT G-24 (6153/12049)			
G-24	1360.0	HORN RIVER B	cuttings
TATE J-65 (6424/12526)			
J-65	300.0	SUMMIT CREEK	cuttings
J-65	560.0	SUMMIT CREEK	cuttings
J-65	900.0	SUMMIT CREEK	cuttings
J-65	1160.0	SUMMIT CREEK	cuttings
J-65	1600.0	EAST FORK	cuttings
J-65	1600.0	EAST FORK	cuttings
J-65	1890.0	EAST FORK	cuttings
J-65	2310.0	EAST FORK	cuttings
J-65	2700.0	EAST FORK	cuttings
J-65	2700.0	EAST FORK	cuttings
J-65	3010.0	EAST FORK	cuttings
J-65	3410.0	EAST FORK	cuttings
J-65	3600.0	EAST FORK	cuttings
J-65	3630.0	EAST FORK	cuttings
J-65	3800.0	LITTLE BEAR	cuttings
J-65	3860.0	LITTLE BEAR	cuttings
J-65	4300.0	LITTLE BEAR	cuttings
J-65	4700.0	LITTLE BEAR	cuttings
J-65	4700.0	LITTLE BEAR	cuttings
J-65	5000.0	SLATER RIVER	cuttings
J-65	5300.0	SLATER RIVER	cuttings
J-65	5300.0	SLATER RIVER	cuttings
J-65	5500.0	SLATER RIVER	cuttings
J-65	5600.0	SLATER RIVER	cuttings
J-65	5670.0	SLATER RIVER	cuttings
J-65	5720.0	SLATER RIVER	cuttings
J-65	5800.0	CANOL E	cuttings
J-65	5900.0	HARE INDIAN	cuttings
J-65	5990.0	BLUEFISH	cuttings
J-65	6280.0	HUME	cuttings
J-65	6710.0	ARNICA	cuttings
J-65	7200.0	ARNICA	cuttings
J-65	7200.0	ARNICA	cuttings
J-65	7200.0	ARNICA	cuttings
J-65	7700.0	DELORME	cuttings
J-65	8400.0	DELORME	cuttings
J-65	8700.0	DELORME	cuttings
J-65	8950.0	DELORME	cuttings
J-65	9200.0	DELORME	cuttings
J-65	9200.0	DELORME	cuttings
J-65	9298.0	DELORME	cuttings
J-65	9298.0	DELORME	cuttings
TAYLOR LAKE K-15 (6554/13303)			

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
K-15	4330.0	CANOL W	cuttings
K-15	4380.0	CANOL W	cuttings
K-15	4430.0	CANOL W	cuttings
K-15	4450.0	CANOL W	cuttings
TEDJI LAKE K-24 (6743/12649)			
K-24	300.0	BEAR ROCK	cuttings
TENLEN A-73 (6752/13043)			
A-73	672.0	IMPERIAL ?	core
A-73	700.0	CANOL	core
A-73	728.0	CANOL	core
A-73	747.0	CANOL	core
A-73	765.0	CANOL	core
A-73	801.0	CANOL	core
A-73	830.0	CANOL	core
A-73	845.0	CANOL	core
A-73	859.0	CANOL	core
A-73	887.0	CANOL	core
A-73	902.0	HARE INDIAN	core
A-73	910.0	HARE INDIAN	core
A-73	941.0	HARE INDIAN	core
A-73	945.0	HARE INDIAN	core
A-73	956.0	HARE INDIAN	core
A-73	970.0	HARE INDIAN	core
A-73	977.0	HARE INDIAN	core
A-73	1020.0	HARE INDIAN	core
A-73	1175.0	BLUEFISH	core
A-73	1196.0	BLUEFISH	core
A-73	1203.0	BLUEFISH	core
A-73	1225.0	BLUEFISH	core
A-73	1173.0	BLUEFISH	core
A-73	2303.0	ARNICA	core
TRAIL RIVER H-37 (6636/13450)			
H-37	8860.0	CANOL W	cuttings
H-37	8870.0	CANOL W	cuttings
H-37	8880.0	CANOL W	cuttings
TRAINOR LAKE H-28 (6017/12034)			
H-28	6780.0	EVIE	cuttings
TROUT LAKE P-34 (6023/12105)			
P-34	420.0	FORT ST. JOHN	cuttings
P-34	755.0	EXSHAW	cuttings
TURKEY LAKE #1 (6107/12022)			
TU#1	2970.0	HORN RIVER	cuttings
WELDON O-65 (6604/13227)			
O-65	4140.0	CANOL W	cuttings
O-65	4190.0	CANOL W	cuttings
O-65	4240.0	CANOL W	cuttings
O-65	4300.0	CANOL W	cuttings
O-65	4330.0	CANOL W	cuttings

WELL	DEPTH(ft)	FORMATION/AGE	SAMPLE TYPE
WHITEFISH H-34 (6533/12435)			
H-34	320.0	CRETACEOUS	cuttings
WHITEFISH H-34 (6533/12435)			
H-34	1120.0	CRETACEOUS	cuttings
H-34	2010.0	CRETACEOUS	cuttings
H-34	2400.0	CRETACEOUS	cuttings
			cuttings
WILLOW LAKE B-20 (6217/11904)			
B-20	1882.0	HORN RIVER B	core
B-20	1895.0	HORN RIVER B	core
WILLOW LAKE B-20 (6217/11904)			
B-20	2004.0	HORN RIVER B	core
B-20	2040.0	HORN RIVER B	core
WILLOW LAKE O-27A (6216/12104)			
O-27A	1190.0	HORN RIVER B	cuttings
WRIGLEY G-70 (6309/12411)			
G-70	2300.0	CANOL E	cuttings
G-70	2400.0	CANOL E	cuttings
G-70	2480.0	CANOL E	cuttings
G-70	2480.0	CANOL E	cuttings
G-70	2620.0	CANOL E	cuttings
G-70	2700.0	HARE INDIAN	cuttings
G-70	2790.0	BLUEFISH	cuttings
G-70	2880.0	BLUEFISH	cuttings
WRIGLEY I-54 (6313/12354)			
I-54	450.0	CANOL E	cuttings
I-54	550.0	CANOL E	cuttings
I-54	600.0	CANOL E	cuttings
I-54	800.0	HARE INDIAN	cuttings
I-54	1000.0	HARE INDIAN	cuttings
I-54	1200.0	BLUEFISH	cuttings
I-54	1250.0	BLUEFISH	cuttings

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
ARCTIC RED C-60 (6649/13355)											
C-60	100.0	1.27	1	.32	.91	.64	71	50	433	.26	1
C-60	230.0	1.10	1	.04	.73	.49	66	44	439	.05	1
C-60	580.0	4.16	1	.61	11.94	.65	287	15	431	.05	1
C-60	880.0	.99	1	.09	.89	.26	89	26	430	.09	1
C-60	1120.0	1.07	1	.12	1.08	.32	100	29	432	.10	1
C-60	1360.0	.92	1	.23	2.26	.28	245	30	437	.09	1
C-60	1790.0	.67	1	.12	.77	.32	114	47	438	.14	1
C-60	2120.0	.92	1	.24	1.36	.66	147	71	439	.15	1
C-60	2450.0	.66	1	.13	.63	.64	95	96	438	.17	1
C-60	2800.0	.60	1	.15	.45	.20	75	33	439	.25	1
C-60	3180.0	.64	1	.19	.49	.38	76	59	442	.28	1
C-60	3370.0	.56	1	.18	.51	.40	91	71	447	.26	1
C-60	3500.0	.56	1	.22	.54	.50	96	89	440	.29	1
C-60	3800.0	1.29	1	.78	1.28	.36	99	27	449	.38	1
C-60	4130.0	.47	1	.13	.35	.20	74	42	447	.27	1
C-60	4420.0	.58	1	.16	.34	.27	58	46	454	.32	1
C-60	4840.0	1.12	1	.46	.97	.27	86	24	457	.32	1
C-60	5130.0	.85	1	.25	.44	.27	51	31	477	.37	1
C-60	5300.0	.82	1	.32	.41	.30	50	36	472	.44	1
C-60	5350.0	2.15	1	1.00	.72	.35	33	16	462	.58	1
C-60	5400.0	2.89	1	1.21	1.07	.21	37	7	467	.53	1
C-60	5450.0	2.87	1	1.12	1.29	.19	44	6	463	.47	1
C-60	5480.0	5.73	1	2.10	2.89	.43	50	7	477	.42	1
C-60	5570.0	.30	1	.07	.10	.21	33	70	427	.44	1
C-60	5810.0	.23	1	.04	.06	.16	26	69	356	.40	1
C-60	6110.0	3.22	1	.18	.27	.19	8	5	464	.41	1
C-60	6500.0	.12	1	0.00	0.00	1.72	0	1433			1
C-60	7590.0	.57	1	.12	.29	.40	50	70	444	.30	1
C-60	8390.0	.07	1	.02	0.00	.16	0	228		1.00	1
C-60	8530.0	.21	1	.07	.08	.20	38	95	443	.50	1
ARCTIC RED G-55 (6644/13309)											
G-55	3800.0	6.30	1	1.63	2.86	.40	45	6	465	.36	1
ARROWHEAD I-46 (6045/12222)											
I-46	440.0	2.69	1	.10	1.04	1.82	38	67	430	.09	1
I-46	1030.0	.72	1	.03	.17	.67	23	93	435	.15	1
I-46	1276.0	1.09	1	.79	1.19	.41	109	37	438	.40	1
I-46	1279.0	1.05	1	.62	1.64	.39	156	37	437	.27	1
I-46	1280.0	1.50	1	.63	2.32	.39	154	26	439	.21	1
I-46	1294.0	1.87	1	0.00	0.00	1.10	0	58			1
I-46	1620.0	2.84	1	.03	1.36	1.45	47	51	435	.02	1
I-46	2000.0	1.61	1	.02	1.12	.92	69	57	434	.02	1
I-46	2220.0	.77	1	.03	.22	.90	28	116	429	.12	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
ARROWHEAD I-46 (6045/12222)											
I-46	2700.0	.44	1	.02	.04	.36	9	81	441	.33	1
I-46	3410.0	.45	1	.05	.23	.43	51	95	431	.18	1
I-46	4117.0	.09	1	.10	.05	.41	55	455	385	.71	1
I-46	4123.0	.18	1	.01	.05	.31	27	172	374	.17	1
I-46	4128.0	.13	1	.01	.01	.21	7	161		.50	1
I-46	4135.0	.22	1	.02	.09	.29	40	131	444	.20	1
I-46	4150.0	.08	1	0.00	0.00	.24	0	300			1
I-46	4155.0	.10	1	0.00	0.00	.16	0	160			1
I-46	4164.5	1.08	1	.30	.82	.55	75	50	451	.27	1
I-46	6097.0	2.57	1	.03	.68	.20	26	7	560	.04	1
I-46	6101.5	4.28	1	.04	.62	.10	14	2	561	.06	1
I-46	6114.0	2.57	1	.02	.65	.06	25	2	547	.03	1
I-46	6123.0	3.27	1	.04	.69	.14	21	4	560	.06	1
I-46	6130.6	4.20	1	.13	.90	.23	21	5	566	.13	1
I-46	6136.5	3.95	1	.01	.81	.18	20	4	565	.01	1
I-46	6497.0	1.68	1	0.00	0.00	.20	0	11			1
I-46	6499.5	1.25	1	0.00	.07	.16	5	12	520	0.00	1
I-46	6501.5	1.18	1	0.00	.04	.26	3	22	535	0.00	1
I-46	6521.0	.61	1	.01	.02	.37	3	60	336	.50	1
I-46	6544.5	3.82	1	0.00	.30	.06	7	1	568	0.00	1
I-46	6747.5	.68	1	0.00	0.00	.38	0	55			1
I-46	6756.5	.53	1	0.00	0.00	.28	0	52			1
I-46	6842.0	.08	1	0.00	0.00	.39	0	487			1
I-46	6844.0	4.93	1	.38	.30	.72	6	14	568	.56	1
I-46	7050.0	.11	1	0.00	0.00	.25	0	227			1
I-46	7062.0	.36	1	0.00	0.00	.42	0	116			1
I-46	7067.0	.52	1	0.00	0.00	.23	0	44			1
I-46	7074.0	.13	1	0.00	.09	.25	69	192	538	0.00	1
I-46	7076.0	4.86	1	.01	.54	.21	11	4	460	.02	1
BLACKWATER LAKE G-52 (6401/12255)											
G-52	4806.0	2.84	1	.12	.18	.37	6	13	491	.40	1
G-52	4809.0	2.70	1	.03	.17	.15	6	5	551	.15	1
G-52	4825.0	.43	1	0.00	.02	.09	4	20	400	0.00	1
G-52	4828.0	.52	1	.02	.03	.22	5	42		.50	1
G-52	4829.5	.62	1	.12	.18	.25	29	40	353	.40	1
G-52	4830.0	.58	1	.04	.03	.13	5	22	305	.67	1
BLUEBERRY CREEK K-53 (6442/12625)											
K-53	2245.0	3.42	1	.75	1.16	.46	33	13	470	.39	1
K-53	2345.0	3.50	1	.35	1.13	.73	32	20	494	.24	1
BLUEFISH 1A (6456/12550)											
1A	840.0	1.33	1	.04	.41	.73	30	54	423	.09	1
1A	1087.0	2.05	1	.15	1.90	.47	0	52	423		1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE				ROCK - EVAL PYROLYSIS							
WELL	DEPTH(ft)	%TOC	REF	S1	S2	S3	HI	OI	Tmax	PI	REF
BLUEFISH 1A (6456/12550)											
1A	1228.0	8.02	1	1.12	25.44	3.96	317	49	407	.04	1
1A	1241.0	6.16	1	.79	18.54	3.24	300	52	410	.04	1
1A	1640.0	.40	1	.15	.42	.74	105	185	443	.27	1
1A	2057.0	.64	1	.60	2.09	.76	326	118	444	.22	1
1A	2453.0	2.00	1	2.71	4.74	.95	237	47	448	.36	1
BLUEFISH A-49 (6458/12552)											
A-49	325.0	1.78	1	1.53	5.31	.35	298	19	443	.22	1
A-49	355.0	3.37	1	3.77	11.33	.48	336	14	445	.25	1
A-49	440.0	4.01	1	4.38	13.58	.66	338	16	444	.24	1
A-49	530.0	5.07	1	3.29	16.47	.61	324	12	444	.17	1
A-49	544.5	1.20	1	1.28	1.65	.47	137	39	450	.44	1
BLUEFISH K-71 (6450/12559)											
K-71	1200.0	3.69	1	.29	8.01	.99	217	26	421	.03	1
K-71	1260.0	7.10	1	.99	25.25	1.63	355	22	418	.04	1
K-71	1305.0	7.10	1	.99	25.25	1.63	355	22	418	.04	1
K-71	1970.0	2.87	1	.24	3.28	1.25	114	43	424	.07	1
K-71	2300.0	.23	1	.01	.04	.45	17	195	437	.25	1
K-71	2610.0	.57	1	.02	.32	.34	56	59	439	.06	1
K-71	3550.0	.64	1	.13	.56	.37	87	57	442	.19	1
K-71	3780.0	1.88	1	1.60	3.85	.16	204	8	446	.29	1
K-71	4020.0	4.60	1	5.96	10.94	.70	237	15	446	.35	1
K-71	4130.0	7.63	1	7.52	19.48	.66	255	8	445	.28	1
K-71	4130.0	7.63	1	7.52	19.48	.66	255	8	445	.28	1
K-71	4220.0	3.30	1	3.30	7.49	.54	226	16	454	.31	1
K-71	4340.0	5.06	1	3.56	10.80	.82	213	16	446	.25	1
BRACKETT C-21 (6510/12505)											
C-21	1080.0	3.40	1	1.03	12.50	1.36	367	40	421	.08	1
C-21	1140.0	6.31	1	3.08	39.45	.88	625	13	430	.07	1
C-21	1190.0	5.39	1	3.05	32.31	.78	599	14	433	.09	1
C-21	1350.0	5.50	1	3.51	34.16	.79	621	14	433	.09	1
C-21	1460.0	1.71	1	.42	1.39	.54	81	31	434	.23	1
C-21	1950.0	6.22	1	4.58	37.29	.77	599	12	439	.11	1
C-21	2050.0	5.43	1	3.56	33.08	.53	609	9	441	.10	1
CAMERON HILLS A-05 (6004/11730)											
A-05	4160.0	.68	1	.40	1.56	1.01	229	148	430	.20	1
A-05	4210.0	.57	1	.30	1.20	.68	210	119	433	.20	1
A-05	4250.0	.69	1	.75	1.67	.59	242	85	434	.31	1
A-05	4310.0	1.02	1	1.02	3.06	.74	300	72	435	.25	1
A-05	4350.0	.54	1	.96	.80	.54	148	100	431	.55	1
A-05	4453.0	.23	1	.09	.56	.29	243	126	436	.14	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE				ROCK - EVAL PYROLYSIS							
WELL	DEPTH(ft)	%TOC	REF	S1	S2	S3	HI	OI	Tmax	PI	REF
CAMERON HILLS A-05 (6004/11730)											
A-05	4454.0	2.50	1	.89	14.08	.77	563	30	435	.06	1
A-05	4458.0	.48	1	.19	.64	.72	133	150	435	.23	1
A-05	4477.0	.37	1	.12	.40	.58	108	156	434	.23	1
A-05	4490.0	1.17	1	.39	3.19	.80	272	68	435	.11	1
A-05	4501.5	.85	1	.24	1.31	.82	154	96	437	.16	1
A-05	4502.0	.16	1	.01	0.00	.38	0	237			1
A-05	4503.0	.10	1	.01	0.00	.24	0	240			1
A-05	4937.0	.60	1	.04	.61	.39	101	65	432	.06	1
A-05	4942.0	.87	1	.11	.55	.30	63	34	425	.17	1
A-05	4943.0	1.65	1	.34	6.08	.66	368	40	435	.05	1
CANYON CREEK #1 (6510/12618)											
CC#1	1862.0	2.91	4	.53	2.87	.30	99	10	438	.16	4
CC#1	1865.0	8.76	4	2.32	21.17	1.70	242	19	436	.10	4
CC#1	1869.0	7.43	4	3.16	16.11	1.90	217	26	435	.16	4
CANYON CREEK #2											
CC#2	800.0	1.68	4	.39	2.55	.87	152	52	429	.13	4
CC#2	1596.0	4.01	4	1.45	9.68	1.02	241	25	443	.13	4
CC#2	1600.0	1.90	4	.35	2.75	2.19	145	115	440	.11	4
CC#2	1605.0	8.80	4	2.37	22.43	2.69	255	31	438	.10	4
CARIBOU N-25 (6614/13450)											
N-25	480.0	5.15	1	1.52	15.77	.55	306	10	440	.09	1
N-25	700.0	2.42	1	1.44	7.02	.64	290	26	441	.17	1
N-25	900.0	1.77	1	.73	3.56	.60	201	33	439	.17	1
N-25	1050.0	1.44	1	.91	4.51	.73	313	50	445	.17	1
N-25	1470.0	1.78	1	1.12	3.67	.80	206	44	447	.23	1
N-25	1600.0	3.42	1	.61	.37	.21	10	6	521	.62	1
N-25	1700.0	2.46	1	.44	.13	.18	5	7	458	.79	1
N-25	1770.0	.59	1	.17	.34	.27	57	45	448	.34	1
N-25	1890.0	3.43	1	.56	.43	.16	12	4	522	.57	1
N-25	2100.0	.57	1	.25	.43	.24	75	42	452	.37	1
N-25	2500.0	.50	1	.18	.37	.36	74	72	454	.33	1
N-25	2900.0	.89	1	.43	.85	.19	95	21	452	.34	1
N-25	3390.0	.83	1	.25	.55	.18	66	21	468	.31	1
N-25	3680.0	.93	1	.22	.43	.14	46	15	467	.34	1
N-25	4180.0	1.05	1	.32	.39	.19	37	18	478	.46	1
N-25	4530.0	.78	1	.14	.16	.19	20	24	503	.47	1
N-25	4570.0	2.92	1	.45	.16	.25	5	8	502	.75	1
N-25	4600.0	3.42	1	.61	.37	.21	10	6	521	.62	1
N-25	4700.0	2.46	1	.44	.13	.18	5	7	458	.79	1
N-25	4800.0	4.11	1	.76	.64	.17	15	4	527	.54	1
N-25	4890.0	3.43	1	.56	.43	.16	12	4	522	.57	1
N-25	5000.0	3.82	1	.44	.54	.16	14	4	478	.45	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE				ROCK - EVAL PYROLYSIS							
WELL	DEPTH(ft)	%TOC	REF	S1	S2	S3	HI	OI	Tmax	PI	REF
CARIBOU N-25 (6614/13450)											
N-25	5100.0	2.42	1	.51	.42	.20	17	8	462	.55	1
N-25	5200.0	3.07	1	.57	.56	.13	18	4	530	.51	1
N-25	5300.0	2.07	1	.37	.36	.20	17	9	459	.51	1
N-25	5600.0	.66	1	.15	.13	.14	19	21	391	.54	1
N-25	5883.0	.15	1	.03	.01	.09	6	60	305	.75	1
N-25	5940.0	.14	1	.01	0.00	.18	0	128			1
N-25	6600.0	.38	1	.10	.02	.11	5	28	305	.83	1
N-25	7200.0	.23	1	.03	.02	.13	8	56		.75	1
N-25	7900.0	3.96	1	.81	.08	.36	2	9	304	.92	1
N-25	8100.0	2.48	1	.81	.08	.35	3	14	305	.92	1
N-25	8600.0	4.02	1	.95	.07	.36	1	8	304	.93	1
N-25	8800.0	2.33	1	.70	.02	.31	0	13	394	.97	1
N-25	9050.0	.68	1	.22	0.00	.24	0	35		1.00	1
N-25	9200.0	.76	1	.26	0.00	.16	0	21		1.00	1
N-25	9600.0	.54	1	.22	.69	.29	127	53	438	.24	1
N-25	10200.0	.41	1	.11	.42	.22	102	53	437	.21	1
N-25	11000.0	.36	1	.03	.03	.25	8	69	428	.50	1
N-25	11200.0	.22	1	.01	.13	.20	59	90	434	.07	1
N-25	11360.0	.21	1	.03	.04	.20	19	95	434	.50	1
N-25	11430.0	.13	1	.05	.24	.15	184	115	434	.18	1
N-25	11640.0	.18	1	.09	.15	.15	83	83	425	.37	1
CARTRIDGE F-72 (6311/12029)											
F-72	590.0	4.60	1	2.26	11.88	.37	258	8	444	.16	1
F-72	665.0	3.53	1	1.57	9.47	0.00	268	0	446	.14	1
F-72	669.0	4.01	1	1.73	10.53	.13	262	3	447	.14	1
F-72	674.0	4.68	1	1.69	11.53	.30	246	6	442	.13	1
F-72	679.0	5.23	1	2.54	19.01	2.35	363	44	445	.12	1
CLARE F-79 (6708/13314)											
F-79	852.0	.60	1	.16	.57	.17	95	28	441	.22	1
F-79	1506.0	.52	1	.16	.47	.19	90	36	453	.26	1
F-79	2189.0	.80	1	.15	.47	.66	58	82	463	.24	1
F-79	2968.0	.90	1	.17	.49	.13	54	14	470	.26	1
F-79	3845.0	3.78	4	.91	1.27	.58			518		4
F-79	3848.0	4.47	4	.85	1.87	.56			489		4
F-79	3850.0	4.29	4	.81	2.41	.94			498		4
F-79	3855.0	3.58	4	.75	2.62	.91			490		4
F-79	3922.0	.01	4	.12	0.00	1.03			303		4
F-79	3930.0	.60	1	.32	.30	.25	50	41	466	.52	1
F-79	3998.0	.16	1	0.00	.01	.14	6	87	391		1
F-79	4050.0	.23	1	.02	.09	.21	39	91	435	.20	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
CLOVERLEAF I-46 (6355/12452)											
I-46	2170.0	1.19	1	.14	.42	1.20	35	100	434	.25	1
I-46	2400.0	1.47	1	.18	.86	.84	58	57	428	.17	1
I-46	2690.0	.46	1	.13	.28	.38	60	82	423	.32	1
I-46	3720.0	1.49	1	.16	1.52	.69	102	46	425	.10	1
I-46	4700.0	.46	1	.45	.24	.31	52	67	377	.66	1
I-46	4800.0	3.22	1	2.24	.31	.32	9	9	340	.88	1
I-46	4900.0	3.76	1	2.90	.35	.33	9	8	341	.90	1
I-46	5000.0	2.64	1	2.17	.48	.41	18	15	342	.82	1
I-46	5170.0	2.55	1	2.60	.44	.47	17	18	340	.86	1
I-46	5400.0	1.27	1	1.19	.38	.35	29	27	377	.76	1
I-46	5490.0	4.13	1	3.54	.64	.49	15	11	343	.85	1
CORM LAKE G-15 (6104/12202)											
G-15	3890.0	3.46	1	.16	.55	.48	15	13	509	.23	1
CRANSWICK A-22 (6531/13148)											
A-22	310.0	1.07	1	.36	.50	.24	46	22	467	.42	1
A-22	600.0	.74	1	.09	.07	.22	9	29	449	.56	1
A-22	790.0	.41	1	.09	.15	.25	36	60	448	.37	1
A-22	1070.0	.26	1	.07	.08	.36	30	138	384	.50	1
A-22	1470.0	.30	1	.08	.16	.23	53	76	370	.33	1
A-22	1880.0	.42	1	0.00	.05	.13	11	30	468	0.00	1
A-22	2700.0	1.58	1	.26	.06	.16	3	10	402	.81	1
A-22	2950.0	.29	1	.03	0.00	.17	0	58		1.00	1
A-22	3310.0	1.72	1	.31	.11	.18	6	10	476	.74	1
A-22	3590.0	1.56	1	.26	.10	.20	6	12	492	.72	1
A-22	3630.0	3.68	1	.18	.20	.25	5	6	567	.47	1
A-22	3680.0	4.14	1	.93	.40	.39	9	9	572	.70	1
A-22	3730.0	2.07	1	.33	.21	.17	10	8	495	.61	1
A-22	3780.0	2.49	1	.36	.23	.16	9	6	567	.62	1
A-22	3820.0	1.39	1	.13	.03	.17	2	12	387	.81	1
A-22	3840.0	2.60	1	.73	.26	.29	10	11	339	.74	1
CRANSWICK A-42 (6541/13307)											
A-42	6950.0	1.22	1	.16	0.00	.06	0	4		1.00	1
A-42	7000.0	5.63	1	.15	0.00	.15	0	2		1.00	1
A-42	7050.0	3.32	1	.16	0.00	0.00	0	0		1.00	1
A-42	7080.0	3.41	1	.13	0.00	0.00	0	0		1.00	1
CROSSLEY LAKE S. K-60 (6830/12939)											
K-60	715.0	.13	4	.21	0.00	.47	0	361	434	1.00	4
K-60	800.0	.24	4	.30	.61	.21	254	88	515	.33	4
K-60	900.0	.15	4	.25	.67	.03	446	20	528	.27	4
K-60	1035.0	.13	4	.11	.11	.01	85	8	541	.50	4

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
CROSSLEY LAKE S. K-60 (6830/12939)											
K-60	1200.0	.72	4	1.56	2.38	1.37	331	190	517	.40	4
K-60	1215.0	1.68	4	1.27	1.65	1.38	98	82	518	.43	4
K-60	1230.0	4.09	4	1.44	3.57	.01	87	0	470	.29	4
K-60	1240.0	3.44	4	.97	3.35	.27	97	8	483	.22	4
K-60	1255.0	8.44	4	1.46	4.83	.01	57	0	457	.25	4
K-60	1260.0	5.54	4	1.55	1.74	.65	31	12	484	.47	4
K-60	1270.0	7.64	4	2.29	2.45	.86	32	11	465	.48	4
K-60	1274.0	7.15	4	2.63	2.47	.73	35	10	469	.52	4
K-60	1279.0	1.95	4	.80	.31	.62	16	32	418	.72	4
K-60	1282.0	9.07	4	2.50	3.25	1.07	38	12	467	.43	4
K-60	1284.0	8.90	4	2.72	2.84	1.10	32	12	449	.49	4
K-60	1288.0	2.60	4	1.01	.19	.84	7	32	471	.84	4
DAHADINNI D-65 (6354/12427)											
D-65	670.0	3.04	1	.08	.17	1.02	5	33	435	.33	1
D-65	1020.0	1.81	1	.12	1.82	.24	100	13	428	.06	1
D-65	1850.0	3.08	1	.49	15.67	.47	508	15	436	.03	1
D-65	1920.0	.30	1	.04	.05	.11	16	36	428	.50	1
D-65	1930.0	.36	1	.08	.23	.25	63	69	433	.27	1
D-65	2410.0	.61	1	.12	.76	.29	124	47	434	.14	1
D-65	4250.0	1.03	1	.17	.06	.05	5	4	365	.77	1
D-65	4300.0	2.34	1	0.00	0.00	.14	0	5			1
D-65	4400.0	2.20	1	.45	.11	.16	5	7	352	.80	1
D-65	4470.0	4.26	1	.39	.15	.23	3	5	447	.72	1
D-65	4900.0	.22	1	.03	.01	.09	4	40		.75	1
D-65	5280.0	3.35	1	.54	.07	.25	2	7	325	.90	1
D-65	5720.0	.67	1	.04	0.00	.12	0	17		1.00	1
D-65	5800.0	2.11	1	.17	.07	.13	3	6	365	.71	1
EAST MACKAY B-45 (6444/12538)											
B-45	3850.0	7.53	1	1.64	32.70	.99	434	13	422	.05	1
EBBUTT D-50 (6219/12223)											
D-50	120.0	.34	1	.06	.16	.23	47	67	509	.27	1
D-50	604.0	2.49	1	.18	3.07	.43	123	17	423	.06	1
D-50	680.0	1.10	1	.31	1.74	.27	158	24	439	.15	1
D-50	1000.0	.85	1	.09	.45	.15	52	17	440	.17	1
D-50	1150.0	.08	1	0.00	.01	.38	12	475	440		1
D-50	1165.0	.14	1	.06	.01	.20	7	142	387	1.00	1
D-50	1300.0	.29	1	.10	.22	.16	75	55	446	.31	1
D-50	1450.0	.44	1	0.00	.04	.17	9	38	309	0.00	1
D-50	1461.0	2.40	1	.02	.20	.17	8	7	530	.09	1
D-50	1482.5	5.07	1	.08	.72	.39	14	7	576	.10	1
D-50	1489.0	4.77	1	.02	.36	.13	7	2	577	.05	1
D-50	1510.0	2.28	1	.01	.19	.12	8	5	524	.05	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
EBBUTT D-50 (6219/12223)											
D-50	1530.0	5.04	1	.08	.41	.27	8	5	568	.17	1
D-50	1600.0	.17	1	.10	.09	.10	52	58	392	.56	1
D-50	1900.0	.51	1	.18	.25	.03	49	5	420	.43	1
D-50	2100.0	3.20	1	.26	.75	.08	23	2	518	.26	1
D-50	2150.0	4.68	1	.61	1.08	.12	23	2	552	.36	1
EBBUTT J-05 (6224/12215)											
J-05	2100.0	3.20	1	.26	.75	.08	23	2	552	.26	1
J-05	2150.0	4.68	1	.61	1.08	.12	23	2	518	.36	1
FISH LAKE G-60 (6309/12255)											
G-60	1400.0	3.16	1	.92	.66	.26	20	8	480	.58	1
G-60	1500.0	3.25	1	.93	1.02	.27	31	8	512	.48	1
G-60	1580.0	1.44	1	.42	.38	.24	26	16	423	.52	1
G-60	1610.0	.85	1	.26	.23	.17	27	20	382	.54	1
G-60	1640.0	.52	1	.03	0.00	.40	0	76		1.00	1
FOETUS LAKE #1 (6055/11831)											
FL#1	2597.0	4.44	1	1.50	23.80	.57	536	12	438	.06	1
FORT SIMPSON M-70 (6159/12227)											
M-70	1710.0	4.76	1	.90	.25	.21	5	4	582	.79	1
M-70	1730.0	4.09	1	.41	.09	.16	2	3	524	.82	1
M-70	1738.0	3.79	1	.51	.06	.14	1	3	479	.91	1
M-70	1950.0	1.58	1	0.00	0.00	.53	0	33			1
M-70	2156.4	.24	1	.03	0.00	.36	0	150		1.00	1
M-70	2163.5	.41	1	.06	.15	.83	36	202	470	.30	1
M-70	2171.0	.37	1	.05	0.00	.23	0	62		1.00	1
M-70	2180.0	1.14	1	.01	0.00	.17	0	14			1
M-70	2181.0	1.39	1	0.00	0.00	.33	0	23			1
M-70	2189.0	.19	1	.02	0.00	.69	0	363		1.00	1
M-70	2194.0	.15	1	.08	.47	.28	313	186	514	.15	1
M-70	2295.5	.40	1	0.00	.07	.59	17	147	487	0.00	1
M-70	4320.0	1.70	1	.45	.24	.39	14	22	431	.66	1
M-70	4340.0	2.34	1	.36	.12	.46	5	19	439	.75	1
GRANDVIEW HILL #1 (6706/13053)											
GH#1	775.0	2.06	4	1.39	4.08	.99	198	48	435	.25	4
GH#1	775.0	2.23	4	1.49	4.14	.31	186	14	436	.26	4
GH#1	777.0	2.83	4	1.42	5.39	.52	190	18	436	.21	4
GH#1	777.0	2.94	4	1.33	5.36	.68	182	23	434	.20	4
GH#1	780.0	2.81	4	1.37	6.47	.73	230	26	436	.17	4
GH#1	780.0	2.94	4	1.50	7.05	.54	240	18	434	.18	4

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE				ROCK - EVAL PYROLYSIS							
WELL	DEPTH(ft)	%TOC	REF	S1	S2	S3	HI	OI	Tmax	PI	REF
HARRIS RIVER A-31 (6230/12006)											
A-31	540.0	3.03	1	2.46	13.51	.65	445	21	447	.15	1
A-31	570.0	3.37	1	2.84	12.33	.70	365	20	447	.19	1
A-31	640.0	3.36	1	2.46	10.50	1.03	312	30	445	.19	1
A-31	680.0	3.80	1	2.68	12.85	.72	338	18	446	.17	1
A-31	710.0	7.11	1	4.47	22.36	.73	314	10	448	.17	1
A-31	994.5	.78	1	.25	.61	.95	78	121	434	.29	1
A-31	1000.0	.48	1	.02	.24	.75	50	156	471	.08	1
A-31	1002.5	.56	1	.27	.33	.86	58	153	430	.45	1
A-31	2050.0	3.03		2.46	13.51	.65	445	21	447	.15	1
HIGHLAND LAKE I-23 (6232/12219)											
I-23	490.0	1.16	1	.13	.36	.59	31	50	445	.27	1
I-23	790.0	1.07	1	.24	.69	.19	64	17	439	.26	1
I-23	1690.0	.25	1	.18	.09	.02	36	8	338	.69	1
I-23	1790.0	4.95	1	.39	.89	.13	17	2	538	.30	1
I-23	1840.0	3.97	1	.33	1.04	.25	26	6	555	.24	1
HOOSIER RIDGE #1 (6524/12732)											
HR#1	1020.0	4.99	4	1.29	18.91	.71	379	14	441	.06	4
HR#1	1023.0	3.83	4	1.02	17.61	.80	460	21	444	.05	4
HR#1	1023.0	4.11	4	1.03	18.68	.89	455	22	447	.05	4
HOOSIER RIDGE #2 (6525/12732)											
HR#2	2052.0	1.67	4	.35	2.56	2.49	153	149	434	.12	4
HR#2	2070.0	2.13	4	.59	5.09	2.50	239	117	437	.10	4
HR#2	2090.0	2.19	4	.58	4.24	2.79	194	127	438	.12	4
HR#2	2124.0	1.78	4	.55	3.11	2.05	175	115	434	.15	4
HR#2	2129.0	3.45	4	.58	10.41	3.02	302	88	440	.05	4
HR#2	2131.0	4.42	4	.95	12.39	1.41	280	32	440	.07	4
HR#2	2133.0	3.89	4	.92	11.95	2.84	307	73	432	.07	4
HR#2	2135.0	4.25	4	1.15	11.09	.73	261	17	444	.09	4
HR#2	2135.0	4.37	4	1.21	11.21	.58	257	13	441	.10	4
JOHNSON A-12 (6331/12402)											
A-12	2050.0	2.36	1	.43	.15	.17	6	7	339	.74	1
A-12	2090.0	1.75	1	.40	.33	.17	18	9	350	.56	1
A-12	2120.0	3.13	1	.57	.26	.15	8	4	506	.70	1
A-12	2165.0	.20	1	0.00	.04	.12	20	60	401	0.00	1
A-12	2191.0	.18	1	0.00	0.00	.03	0	16			1
A-12	2200.0	.28	1	.03	.08	.09	28	32	457	.30	1
A-12	2209.0	.29	1	.02	.03	.09	10	31	416	.50	1
A-12	2600.0	.15	1	.01	0.00	.10	0	66			1
A-12	2790.0	.12	1	0.00	0.00	.03	0	25			1
A-12	2990.0	.20	1	.03	.05	.22	25	110	317	.37	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
JOHNSON A-12 (6331/12402)											
A-12	3190.0	4.95	1	.37	.06	.25	1	5	421	.88	1
KAKISKA LAKE L-19 (6058/11803)											
L-19	2168.0	2.50	1	.80	11.69	.40	467	16	441	.06	1
KEELE A-28 (6407/12504)											
A-28	200.0	1.38	2								
A-28	1300.0	1.06	2								
A-28	1800.0	2.16	2								
A-28	2600.0	1.20	2								
A-28	3500.0	2.89	2								
A-28	5300.0	.59	2								
A-28	6800.0	.62	2								
A-28	7500.0	1.60									
A-28	7800.0	2.51	1	.42	.49	.34	19	13	435	.47	1
A-28	7900.0	4.55	1								
A-28	7910.0	4.70	1	.61	.23	.32	4	6	465	.73	1
A-28	8000.0	2.35	1	.38	.10	.23	4	9	355	.79	1
A-28	8070.0	3.52	1	.61	.12	.26	3	7	426	.85	1
A-28	8140.0	5.18	1	1.07	.24	.39	4	7	360	.82	1
A-28	8250.0	.79	1	.15	.04	.16	5	20	309	.83	1
A-28	8350.0	1.27	1	.40	.18	.15	14	11	349	.69	1
A-28	8400.0	2.72	1	.40	.07	.21	2	7	309	.87	1
A-28	8450.0	5.77	1	.19	.04	.17	0	2	467	.86	1
A-28	9800.0	1.05	2								
KUGALUK N-02 (6831/13131)											
N-02	604.0	1.63	1	.03	.96	.69	58	42	438	.03	1
N-02	2685.0	4.69	1	0.00	.31	.14	6	2	517	0.00	1
N-02	2703.0	3.02	1	.19	.12	.15	3	4	555	.63	1
N-02	2746.0	4.60	1	.20	.66	.18	14	3	519	.23	1
N-02	2796.0	3.33	1	.04	.47	.17	14	5	527	.08	1
N-02	2840.0	3.30	1	2.19	1.41	.34	42	10	334	.61	1
N-02	2875.0	4.14	1	.05	.64	.10	15	2	566	.07	1
N-02	2922.0	2.64	1	.25	.76	.22	28	8	431	.25	1
N-02	2929.0	2.41	1	.25	.40	.50	16	20	459	.39	1
LAFERTE RIVER M-16 (6145/11833)											
M-16	604.0	2.66	1	.05	1.35	.83	50	31	438	.04	1
M-16	604.0	2.52	1	.16	3.15	.59	125	23	422	.05	1
M-16	990.0	.94	1	.63	2.61	.42	277	44	442	.19	1
M-16	1074.0	3.14	1	2.31	10.95	.68	348	21	444	.17	1
M-16	1166.0	.88	1	1.48	2.19	.76	248	86	440	.40	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
LAFERTE RIVER M-16 (6145/11833)											
M-16	1031.0	3.03	1	2.57	11.44	.78	377	25	443	.18	1
M-16	1180.0	6.71	1	3.72	30.57	1.22	455	18	441	.11	1
LITTLE BEAR I-70 (6439/12556)											
I-70	5450.0	4.04	1	.30	5.56	1.15	137	28	431	.05	1
LOON CREEK #1 (6511/12654)											
LC#1	385.0	2.14	1	.19	1.90	.47	0	38	441	.09	1
LC#1	482.0	1.01	1	.09	.63	.47	62	46	437	.12	1
LC#1	526.0	.46	1	.06	.30	.36	65	78	441	.17	1
LC#1	2912.0	.29	1	.18	.52	.38	179	131	445	.26	1
M.P. CECILE 1 (6414/13019)											
CE1	0.0		8	.02	.11	1.28			348	.15	8
M.P. CECILE 10 (6428/12630)											
CE10	0.0	7.03	7	3.61	9.91	.50	141	7	463	.27	7
CE10	0.0	7.03	7	3.83	10.95	.45	156	6	461	.26	7
M.P. CECILE 11 (6354/12755)											
CE11	0.0	.53	7	0.00	.07	.07	13	13	466	.00	7
CE11	0.0	.53	7	0.00	.08	.07	15	13	461	.00	7
M.P. CECILE 12 (6443/12915)											
CE12	0.0		8	.01	.03	.37			302	.25	8
CE12	0.0		8	.02	.02	.20			372	.50	8
M.P. CECILE 13 (6449/12909)											
CE13	0.0		8	.01	.01	.08			274	.50	8
M.P. CECILE 2 (6437/12918)											
CE2	0.0		8	.03	.61	.23			537	.05	8

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
M.P. CECILE 4 (6452/13025)											
CE4	0.0		8	.01	.07	1.89			395	.13	8
M.P. CECILE 5 (6517/12916)											
CE5	0.0	9.56	9	2.60	4.97	.37	52	4	464	.34	9
CE5	0.0	9.71	9	2.60	4.92	.36	51	4	466	.35	9
M.P. CECILE 6 (6522/13045)											
CE6	0.0	2.86	9	.02	.30	.23	10	8	581	.06	9
CE6	0.0	3.01	9	.01	.32	.21	11	7	577	.03	9
M.P. CECILE 7 (6525/13112)											
CE7	0.0	5.83	9	.01	.09	.36	2	6	576	.11	9
CE7	0.0	5.84	9	0.00	.08	.39	1	7	576	.00	9
M.P. CECILE 8 (6642/13547)											
CE8	0.0	.72	7	0.00	0.00	.21	0	29	260	.00	7
CE8	0.0	.72	7	0.00	0.00	.22	0	31	457	.00	7
CE8	0.0	1.65	7	0.00	.02	.19	1	12	274	.00	7
CE8	0.0	1.65	7	0.00	.03	.21	2	13	274	.00	7
CE8	0.0	2.20	7	0.00	.01	.12	0	5	274	.00	7
CE8	0.0	2.20	7	0.00	.03	.13	1	6	295	.00	7
M.P. CECILE 9 (6424/12730)											
CE9	0.0	.82	7	.20	.38	.24	46	29	505	.34	7
CE9	0.0	.82	7	.20	.42	.24	51	29	500	.32	7
M.P.CECILE 3 (6438/13049)											
CE3	0.0		8	.01	.17	.67			445	.06	8
M.P.CECILE 4 (6452/13025)											
CE4	0.0		8	.01	.01	1.12			379	.50	8
MACKENZIE RIVER #1 (6516/12653)											
G-47	1445.0	1.84	4	.53	4.91	.53	267	29	429	.10	4
G-47	1446.5	1.41	4	.44	3.03	.57	215	40	426	.13	4
G-47	1448.0	1.37	4	.34	3.19	.51	233	37	430	.10	4
G-47	1450.0	1.56	4	.42	3.90	.36	250	23	430	.10	4
G-47	1452.0	1.41	4	.36	3.77	.48	267	34	430	.09	4
G-47	1454.5	1.41	4	.36	4.75	.30	337	21	441	.07	4
G-47	1456.0	1.85	4	.47	5.22	1.10	282	59	434	.08	4

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
MACKENZIE RIVER #1 (6516/12653)											
G-47	1459.0	1.80	4	.56	5.93	.89	329	49	434	.09	4
G-47	1460.0	2.00	4	.64	6.14	.50	307	25	430	.09	4
G-47	1461.0	2.11	4	.77	7.25	.97	344	46	430	.10	4
G-47	1464.5	3.36	4	1.12	12.11	.49	360	15	428	.08	4
G-47	1466.0	2.96	4	.81	10.73	1.23	363	42	428	.07	4
G-47	1468.5	2.89	4	.90	10.56	1.46	365	51	428	.08	4
G-47	1472.0	4.26	4	1.23	14.84	2.35	348	55	431	.08	4
G-47	1475.0	6.17	4	2.65	24.33	2.45	394	40	422	.10	4
G-47	1475.0	5.28	4	2.15	22.21	2.03	421	38	426	.09	4
G-47	1473.0	4.91	4	1.25	14.17	2.86	289	58	423	.08	4
G-47	1476.5	5.57	4	2.04	25.95	3.41	466	61	427	.07	4
G-47	1480.0	6.78	4	.29	3.87	1.06	57	16	427	.07	4
G-47	1481.0	3.82	4	1.48	15.71	2.04	411	53	426	.09	4
G-47	1482.5	5.65	4	1.72	25.50	2.07	451	.37	429	.06	4
G-47	1485.5	11.55	4	4.98	62.50	2.59	541	22	425	.07	4
MACKENZIE RIVER #4 (6516/12650)											
E-27	1305.5	.86	4	.18	2.62	2.08	305	242	429	.06	
E-27	1306.5	4.56	4	2.12	20.44	2.43	448	53	427	.09	
E-27	1306.7	3.74	4	1.76	16.84	2.16	450	58	420	.09	
E-27	1307.0	7.96	4	3.28	38.34	2.32	482	29	424	.08	
E-27	1307.5	5.70	4	3.28	24.73	2.34	434	41	426	.12	
E-27	1309.0	5.62	4	4.56	22.45	1.92	399	34	427	.17	
E-27	1309.5	6.30	4	2.60	27.63	2.11	439	33	425	.09	
E-27	1310.0	5.25	4	2.88	23.04	2.01	439	38	428	.11	
E-27	1311.0	3.00	4	2.76	11.03	1.54	368	51	421	.20	
E-27	1311.2	18.88	4	9.20	88.71	2.29	470	12	425	.09	
E-27	1311.7	10.57	4	4.24	45.67	2.18	432	21	425	.08	
E-27	1312.9	5.64	4	3.44	23.09	1.67	409	30	428	.13	
E-27	1314.0	6.86	4	4.29	29.54	1.78	431	26	427	.13	
E-27	1315.5	7.10	4	5.90	29.13	1.68	410	24	426	.17	
E-27	1316.5	5.55	4	5.22	24.51	1.61	442	29	426	.18	
E-27	1318.5	5.90	4	4.65	25.02	1.15	424	19		.16	
MAIDA CK G-56 (6536/12810)											
G-56	1698.0	4.34	4	1.81	7.18	1.27	165	29	438	.20	4
G-56	1700.0	2.88	4	1.33	5.12	1.39	178	48	436	.21	4
G-56	1716.0	6.77	4	1.85	16.15	1.92	239	28	436	.10	4
G-56	1727.0	6.54	4	2.12	22.72	1.77	347	27	436	.09	4
G-56	1734.0	9.62	4	3.62	27.94	1.90	290	20	439	.11	4
MILLS LAKE A-70 (6109/11756)											
A-70	2100.0	8.48	1	5.73	47.21	1.03	556	12	435	.11	1
A-70	2101.0	8.54	1	5.35	49.07	1.04	574	12	438	.10	1
A-70	2103.5	.69	1	.45	2.99	.55	433	79	441	.13	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE				ROCK - EVAL PYROLYSIS							
WELL	DEPTH(ft)	%TOC	REF	S1	S2	S3	HI	OI	Tmax	PI	REF
MILLS LAKE A-70 (6109/11756)											
A-70	2125.0	3.48	1	1.64	21.64	1.38	621	39	442	.07	1
A-70	2125.5	3.90	1	2.15	24.26	.90	622	23	437	.08	1
A-70	2127.5	1.16	1	1.08	5.65	.66	487	56	440	.16	1
MILLS LAKE B-75 (6114/11728)											
B-75	1454.0	.70	1	.30	1.50	.69	214	98	439	.17	1
B-75	1455.5	18.24	1	5.32	116.79	1.54	640	8	438	.04	1
B-75	1460.0	7.00	1	3.40	39.92	.87	570	12	440	.08	1
B-75	1460.0	5.37	1	1.47	30.09	2.74	560	51	440	.05	1
B-75	1464.5	7.47	1	4.31	41.11	.84	550	11	438	.09	1
B-75	1464.5	6.29	1	2.27	35.34	3.16	561	50	439	.06	1
B-75	1470.7	13.36	1	7.26	72.58	.85	543	6	436	.09	1
B-75	1474.7	.10	1	0.00	.19	1.08	190	1080	441	0.00	1
MINK LAKE I-38 (6137/11735)											
I-38	875.0	13.61	1	5.77	66.11	1.99	485	14	440	.08	1
I-38	911.0	2.06	1	.96	8.52	.40	413	19	444	.10	1
NEVEJO M-05 (6714/13401)											
M-05	5460.0	1.89	1	.17	.18	.28	9	14	511	.50	1
NORMAN WELLS 36X (6517/12653)											
B-48	1221.0	2.40	4	2.45	7.74	2.37	323	99	426	.24	4
B-48	1221.5	2.90	4	4.37	30.59	2.45	1055	84	424	.13	4
B-48	1222.8	6.60	4	4.96	27.69	2.42	420	37	425	.15	4
B-48	1224.4	5.51	4	2.38	24.47	1.99	444	36	424	.09	4
B-48	1224.8	3.40	4	3.28	12.80	2.13	376	63	429	.20	4
B-48	1228.4	11.90	4	4.57	55.25	2.50	464	21	427	.08	4
B-48	1230.0	6.54	4	3.55	26.46	2.22	405	34	423	.11	4
B-48	1369.0	4.96	4	3.11	17.47	3.19	352	64	423	.15	4
ONTARATUE H-34 (6623/13205)											
H-34	130.0	1.11	1	.21	.89	.45	80	40	438	.19	1
H-34	360.0	1.13	1	.15	.74	.72	65	63	442	.17	1
H-34	700.0	1.05	1	.56	1.66	.62	158	59	449	.25	1
H-34	1000.0	.69	1	.35	.65	.40	94	57	446	.35	1
H-34	1300.0	.78	1	.39	.73	.47	93	60	451	.35	1
H-34	1600.0	.81	1	.50	.65	.50	80	61	455	.44	1
H-34	1960.0	.93	1	.44	.75	.49	80	52	453	.37	1
H-34	2190.0	.71	1	.38	.60	.41	84	57	463	.39	1
H-34	2480.0	.74	1	.43	.51	.47	68	63	457	.46	1
H-34	2760.0	.62	1	.31	.41	.32	66	51	474	.43	1
H-34	2960.0	3.22	1	2.46	3.07	.62	95	19	464	.45	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
ONTARATUE H-34 (6623/13205)											
H-KK	3010.0	2.24	1	2.39	2.50	.61	111	27	459	.49	1
H-34	3060.0	3.21	1	2.19	3.06	.75	95	23	457	.42	1
H-34	3110.0	1.74	1	1.52	1.68	.59	96	33	457	.47	1
H-34	3160.0	4.61	1	3.62	4.40	.65	95	14	469	.45	1
H-34	3180.0	4.89	1	3.30	4.22	.70	86	14	469	.44	1
H-34	3210.0	1.55	1	.92	1.33	.48	85	30	461	.41	1
H-34	3220.0	4.25	1	2.00	3.56	.76	83	17	468	.36	1
H-34	3420.0	1.34	1	.81	.90	.32	67	23	463	.48	1
H-34	3620.0	.40	1	.27	.20	.27	50	67	444	.59	1
H-34	3780.0	.38	1	.25	.21	.32	55	84	462	.54	1
H-34	3990.0	.48	1	.80	.41	.41	85	85	448	.67	1
H-34	6500.0	.11	1	.11	.01	.17	9	154	352	.92	1
H-34	8730.0	.16	1	.04	0.00	.19	0	118		1.00	1
H-34	9000.0	.08	1	.03	0.00	.18	0	225		1.00	1
H-34	9090.0	.09	1	.04	0.00	.15	0	166		1.00	1
H-34	9300.0	.13	1	.11	0.00	.17	0	130		1.00	1
H-34	9488.5	.07	1	.01	0.00	.39	0	557			1
H-34	9491.0	.07	1	.03	0.00	.27	0	385		1.00	1
H-34	9493.0	.17	1	0.00	0.00	.53	0	311			1
H-34	9496.5	.11	1	0.00	0.00	.21	0	190			1
H-34	10009.0	.59	1	0.00	.04	.12	6	20	567	0.00	1
H-34	10015.0	.29	1	0.00	.11	.05	37	17	565	0.00	1
H-34	10020.0	.81	1	0.00	.30	.11	37	13	564	0.00	1
H-34	10400.0	.73	1	.16	.06	.23	8	31	313	.73	1
H-34	10603.0	.31	1	0.00	.05	.02	16	6	465	0.00	1
H-34	10607.0	.35	1	0.00	0.00	0.00	0	0			1
H-34	10612.0	.31	1	0.00	.01	.08	3	25	405		1
H-34	10619.0	.44	1	0.00	.03	.05	6	11	442	0.00	1
H-34	10860.0	.11	1	.08	.03	.49	27	445	427	.80	1
H-34	11100.0	2.26	1	.72	.24	.52	10	23	367	.75	1
H-34	11348.0	1.01	1	0.00	.01	.06	0	5	389		1
H-34	11590.0	.96	1	.66	.32	.63	33	65	418	.67	1
H-34	11900.0	.17	1	.34	.16	.42	94	247	411	.68	1
H-34	12200.0	.09	1	.17	.01	.28	11	311	376	.94	1
H-34	12610.0	.11	1	.33	0.00	.30	0	272		1.00	1
H-34	13010.0	.52	1	1.20	.08	.40	15	76		.94	1
H-34	13300.0	.40	1	.41	.71	.48	177	120	436	.37	1
ONTARATUE I-38 (6617/13151)											
I-38	2980.0	3.79	1	.76	2.02	.50	53	13	469	.27	1
I-38	3220.0	2.07	1	.70	1.35	.24	65	11	468	.34	1
ONTARATUE K-04 (6633/13046)											
K-04	100.0	1.88	1	.66	2.00	.78	106	41	440	.25	1
K-04	300.0	.92	1	.37	.83	1.41	90	153	440	.31	1
K-04	410.0	42.49	1	1.31	84.21	8.15	198	19	447	.02	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
ONTARATUE K-04 (6633/13046)											
K-04	500.0	1.09	1	.14	.70	.77	64	70	445	.17	1
K-04	750.0	.92	1	.43	1.05	.28	114	30	441	.29	1
K-04	880.0	1.64	1	.91	3.62	.55	220	33	440	.20	1
K-04	900.0	6.07	1	3.82	24.40	.97	401	15	436	.14	1
K-04	910.0	3.90	1	0.00	0.00	1.15	0	29			1
K-04	930.0	4.70	1	2.72	21.51	.87	457	18	439	.11	1
K-04	940.0	7.47	1	4.67	37.90	1.18	507	15	438	.11	1
K-04	1100.0	.43	1	.21	.76	.35	176	81	444	.22	1
K-04	1310.0	.65	1	.44	1.75	.37	269	56	447	.20	1
K-04	1600.0	2.26	1	1.42	5.82	.62	257	27	447	.20	1
K-04	1640.0	4.54	1	3.20	17.52	.99	385	21	445	.15	1
K-04	1650.0	12.43	1	5.44	27.52	1.05	221	8	446	.17	1
K-04	1660.0	.43	1	.19	.70	.27	162	62	444	.22	1
K-04	1890.0	.14	1	.14	.11	.19	78	135	397	.58	1
K-04	2380.0	.16	1	.23	.14	.25	87	156	441	.64	1
K-04	3280.0	.16	1	.20	0.00	.20	0	125		1.00	1
K-04	7750.0	.12	1	.02	0.00	.22	0	183		1.00	1
K-04	8092.5	.36	1	.17	.16	.42	44	116	496	.53	1
K-04	8300.0	.23	1	.15	.01	.33	4	143		.94	1
K-04	8500.0	.07	1	.09	0.00	.28	0	400		1.00	1
K-04	8768.5	.38	1	0.00	.32	.11	84	28	563	0.00	1
K-04	8779.0	.14	1	0.00	.27	.02	192	14	559	0.00	1
PEEL RIVER I-21 (6610/13418)											
I-21	4660.0	2.08	1	1.51	2.40	.19	115	9	465	.39	1
I-21	4680.0	1.48	1	1.40	.93	0.00	62	0	468	.60	1
I-21	4710.0	3.83	1	3.18	2.74	.63	71	16	461	.54	1
I-21	4740.0		1	0.00	0.00	.47					1
I-21	4750.0	1.61	1	1.12	2.49	.12	154	7	455	.31	1
PEEL RIVER M-69 (6608/13358)											
M-69	120.0	1.03	1	.21	1.12	.23	108	22	440	.16	1
M-69	300.0	.94	1	.18	.98	.26	104	27	438	.16	1
M-69	370.0	1.14	1	.18	1.45	.22	127	19	440	.11	1
M-69	850.0	1.29	1	.26	1.51	.53	117	41	441	.15	1
M-69	1010.0	1.30	1	.23	1.70	.20	130	15	439	.12	1
M-69	1290.0	1.10	1	.20	1.06	.26	96	23	445	.16	1
M-69	1400.0	1.16	1	.24	1.21	.22	104	18	445	.17	1
M-69	1480.0	1.24	1	.30	1.24	.70	100	56	442	.19	1
M-69	1860.0	1.56	1	.68	2.75	.29	176	18	447	.20	1
M-69	2220.0	1.57	1	.71	2.11	.73	134	46	447	.25	1
M-69	2350.0	1.37	1	.54	1.96	.69	143	50	449	.22	1
M-69	2560.0	1.25	1	.38	.95	1.51	76	120	452	.29	1
M-69	2910.0	1.20	1	.33	1.01	.28	84	23	454	.25	1
M-69	2940.0	1.41	1	.36	.94	.19	66	13	458	.28	1
M-69	3180.0	1.49	1	.41	1.20	.78	80	52	454	.26	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
PEEL RIVER M-69 (6608/13358)											
M-69	3190.0	1.52	1	.63	1.25	.53	82	34	472	.34	1
M-69	3520.0	1.34	1	.50	1.08	.67	80	50	467	.32	1
M-69	3700.0	1.53	1	.60	1.13	.67	73	43	470	.35	1
M-69	4200.0	1.83	1	.68	1.37	.91	74	49	474	.33	1
M-69	4380.0	1.71	1	.57	1.12	.85	65	49	476	.34	1
M-69	4640.0	1.27	1	.49	.90	.55	70	43	482	.36	1
M-69	4860.0	1.25	1	.39	.57	.54	45	43	486	.41	1
M-69	5140.0	1.13	1	.25	.37	.47	32	41	504	.40	1
M-69	5400.0	.77	1	.26	.46	.41	59	53	467	.36	1
M-69	5600.0	1.12	1	.32	.75	.54	66	48	454	.30	1
M-69	5790.0	1.67	1	.36	.48	.34	28	20	516	.43	1
M-69	6000.0	2.46	1	.45	.42	.16	17	6	499	.52	1
M-69	6210.0	1.04	1	.39	.17	.36	16	34	401	.70	1
M-69	6400.0	1.02	1	.25	.14	.10	13	9	532	.66	1
M-69	6680.0	2.75	1	1.20	.36	.21	13	7	357	.77	1
M-69	6920.0	.99	1	.29	.20	.16	20	16	460	.60	1
M-69	7340.0	.45	1	.13	.06	.51	13	113	356	.72	1
M-69	7490.0	1.87	1	.53	.09	.23	4	12	448	.85	1
M-69	7510.0	2.60	1	.57	.25	.19	9	7	452	.70	1
M-69	7540.0	4.36	1	.72	.42	.26	9	5	552	.63	1
POINT SEPARATION #1 (6734/13400)											
PS#1	5175.0	3.71	4	.03	1.50	.46	40	12	525	.02	4
PS#1	5179.0	4.66	4	.01	1.79	.43	38	9	516	.00	4
PS#1	5185.0	6.95	4	.03	2.26	1.04	33	15	509	.01	4
PS#1	5190.0	6.80	4	.17	1.50	.72	22	11	500	.10	4
PS#1	5196.0	4.34	4	.01	1.35	.17	31	4	490	.01	4
PROVIDENCE K-45 (6134/11747)											
K-45	605.0	.56	1	.38	1.35	.65	241	116	442	.22	1
K-45	636.0	1.43	1	1.19	4.61	.75	322	52	442	.21	1
K-45	672.0	8.82	1	8.78	53.38	1.32	605	15	442	.14	1
K-45	691.0	7.79	1	5.88	39.13	1.03	502	13	440	.13	1
K-45	715.0	2.47	1	2.47	10.00	.82	405	33	437	.20	1
K-45	741.0	.85	1	.74	2.28	.98	268	115	442	.25	1
K-45	768.0	.41	1	.26	.88	.77	215	188	440	.23	1
K-45	817.0	9.92	1	5.14	47.20	1.63	476	16	440	.10	1
K-45	827.0	7.67	1	4.40	47.14	1.32	615	17	439	.09	1
K-45	835.0	8.45	1	5.63	40.64	1.19	481	14	439	.12	1
K-45	841.0	4.25	1	2.87	20.02	1.08	471	25	444	.13	1
K-45	856.0	.96	1	.90	3.19	.92	332	96	443	.22	1
RABBITSKIN I-08 (6137/11930)											
I-08	1362.0	2.69	1	1.76	2.72	.62	101	23	459	.39	1
I-08	1390.0	6.01	1	5.27	8.17	.83	135	13	465	.39	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
BRABBITSKIN I-08 (6137/11930)											
I-08	1409.0	4.05	1	3.48	4.41	.73	108	18	463	.44	1
RAMPARTS A-59 (6528/13039)											
A-59	6690.0	2.34	1	.29	.05	.12	2	5	487	.85	1
A-59	6800.0	4.53	1	.55	.08	.13	1	2	539	.89	1
A-59	6900.0	3.80	1	1.03	.20	.19	5	5	545	.84	1
A-59	6970.0	2.23	1	.61	.09	.16	4	7	481	.87	1
A-59	7040.0	.31	1	.10	.01	.09	3	29	321	1.00	1
A-59	7130.0	4.39	1	.76	.24	.21	5	4	516	.76	1
RAMPARTS I-77 (6526/13558)											
I-77	2220.0	2.22	1	.81	.83	.23	37	1	480	.49	1
I-77	2300.0	3.45	1	.98	1.58	.24	45	7	481	.38	1
I-77	2350.0	4.63	1	1.01	1.28	.21	27	5	486	.44	1
I-77	2420.0	2.99	1	1.02	1.08	.20	36	7	502	.49	1
I-77	2480.0	4.60	1	.87	1.66	.17	36	4	504	.35	1
I-77	2550.0	.07	1	.44	.45	.18	642	25	504	.50	1
I-77	2570.0	2.03	1	.46	.58	.15	28	7	515	.44	1
REDSTONE #1 (6411/12438)											
RS#1	430.0	.94	1	.19	.68	.68	72	72	438	.22	1
RS#1	604.0	2.40	1	.17	2.86	.49	119	20	423	.06	1
RS#1	1370.0	1.08	1	.10	.50	.83	46	77	436	0.00	1
RS#1	1600.0	1.44	1	.18	1.88	.44	0	0	436	.09	1
RS#1	1667.0	.50	1	.14	.47	.46	94	92	444	.23	1
RS#1	1860.0	4.67	1	.45	.13	.49	2	10	448	.78	1
RS#1	2065.0	.25	1	.06	.11	.13	44	52	341	.37	1
RS#1	2074.0	.19	1	.05	.08	.14	42	73	350	.42	1
ROND LAKE #2 (6704/12828)											
RL#2	130.0	.36	1	.49	.58	.81	161	225	415	.46	1
RL#2	240.0	.27	1	.60	.52	.60	192	222	396	.54	1
RL#2	320.0	.56	1	.65	1.86	.49	332	87	438	.26	1
RL#2	400.0	.55	1	.80	1.43	.61	260	110	434	.36	1
RL#2	460.0	2.18	1	2.03	8.14	.85	373	38	439	.20	1
ROOT RIVER I-60 (6239/12324)											
I-60	3535.5	.48	1	.02	.08	.28	16	58	455	.20	1
I-60	3547.5	.87	1	.27	.40	.33	45	37	523	.41	1
I-60	3550.5	.17	1	0.00	.24	.15	141	88	525	0.00	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE				ROCK - EVAL PYROLYSIS							
WELL	DEPTH(ft)	%TOC	REF	S1	S2	S3	HI	OI	Tmax	PI	REF
SANS SAULT #1 (6543/12849)											
SS#1	1410.0	.41	4	.08	.24	.38	59	93	450	.25	4
SS#1	1410.0	.47	4	.07	.28	.26	60	55	450	.20	4
SS#1	4120.0	.21	4	.16	.16	.28	76	133	442	.50	4
SS#1	4120.0	.24	4	.18	.18	.01	75	4	449	.50	4
SATAH RIVER G-72 (6651/13413)											
G-72	5950.0	.70	1	.33	.32	.18	45	25	468	.52	1
G-72	6010.0	2.57	1	0.00	1.15	.20	44	7	459	0.00	1
G-72	6060.0	1.33	1	.62	.78	.41	58	30	452	.44	1
G-72	6110.0	4.07	1	2.22	2.09	.13	51	3	464	.52	1
G-72	6150.0	4.11	1	0.00	0.00	.22	0	5			1
SIBB LAKE G-24 (6133/12234)											
G-24	1600.0	3.76	1	.06	.16	.38	4	10	442	.27	1
SILVAN PLATEAU G-51 (6350/12525)											
G-51	130.0	.36	1	.02	0.00	.19	0	52		1.00	1
G-51	210.0	.29	1	.11	.04	.13	13	44	305	.79	1
G-51	300.0	.43	1	.04	0.00	.12	0	27		1.00	1
G-51	410.0	.36	1	.16	.04	.13	11	36	302	.80	1
G-51	604.0	1.64	1	.05	.96	.64	58	39	435	.05	1
G-51	640.0	.78	1	.08	.03	.13	3	16	322	.80	1
G-51	750.0	.01	1	.15	.03	.06	300	600	329	.83	1
G-51	800.0	.46	1	.04	.03	.08	6	17	302	.67	1
G-51	1130.0	.48	1	.07	.10	.22	20	45	348	.44	1
G-51	1200.0	.32	1	.11	.07	.23	21	71	405	.61	1
G-51	1510.0	.52	1	.20	.13	.12	25	23	353	.62	1
G-51	1750.0	.35	1	.18	.07	.13	20	37		.75	1
G-51	1950.0	1.35	1	.64	.18	.12	13	8	346	.78	1
G-51	2140.0	1.71	1	.46	.06	.18	3	10	348	.88	1
G-51	2250.0	4.39	1	.92	.18	.41	4	9	301	.84	1
G-51	2310.0	2.50	1	.68	.08	.18	3	7	343	.89	1
G-51	2450.0	3.49	1	.60	.07	.21	2	6	300	.91	1
G-51	2530.0	2.27	1	.64	.20	.16	8	7	354	.76	1
G-51	2600.0	2.43	1	.57	.13	.18	5	7	300	.81	1
G-51	2680.0	2.34	1	.93	.24	.33	10	14	339	.80	1
G-51	2730.0	2.21	1	.57	.17	.20	7	9	330	.77	1
G-51	2840.0	1.65	1	.44	.12	.27	7	16	398	.79	1
G-51	2960.0	2.18	1	.82	.26	.36	11	16	345	.76	1
G-51	3060.0	2.82	1	1.21	.31	.35	10	12	342	.80	1
G-51	3470.0	.08	1	.04	.01	.14	12	175	300	1.00	1
G-51	3690.0	.17	1	.06	.03	.19	17	111		.75	1
G-51	4250.0	1.33	1	.65	.05	.31	3	23	300	.93	1
G-51	4360.0	.36	1	.25	.03	.20	8	55	301	.89	1
G-51	4530.0	.56	1	.32	.10	.21	17	37	301	.76	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
SILVAN PLATEAU G-51 (6350/12525)											
G-51	4770.0	.06	1	.01	0.00	.23	0	383		1.00	1
STEWART B-30 (6419/12519)											
B-30	5280.0	3.13	1	.70	10.18	.72	325	23	429	.06	1
B-30	5310.0	3.13	1	.71	10.13	.46	331	15	430	.07	1
B-30	5670.0	5.36	1	.89	2.69	.43	50	8	469	.25	1
B-30	5900.0	5.12	1	.97	1.58	.53	30	10	464	.38	1
STONY I-50 (6729/13522)											
I-50	2590.0	.78	1	.12	.23	.16	29	20	476	.35	1
I-50	3645.0	.74	1	.02	.14	.07	18	9	476	.12	1
I-50	4617.0	.81	1	.01	.06	.10	7	12	366	.17	1
I-50	5758.0	.61	1	0.00	.01	.08	1	13	305	.00	1
I-50	6790.0	.67	1	0.00	.12	.04	17	5	513	0.00	1
I-50	6914.0	3.16	1	.51	.18	.23	5	7	355	.75	1
I-50	6990.0	3.85	1	.03	.30	.18	7	4	536	.09	1
I-50	7432.0	.04	1	0.00	.23	.03	575	75	504	0.00	1
STRONG POINT G-24 (6153/12049)											
G-24	1360.0	3.91	1	2.54	7.30	.52	186	13	454	.26	1
TATE J-65 (6424/12526)											
J-65	300.0	1.19	1	.17	.41	1.03	34	86	429	.29	1
J-65	560.0	.68	1	.04	.19	.56	27	82	438	.18	1
J-65	900.0	.64	1	.04	.14	.37	21	57	433	.22	1
J-65	1160.0	1.00	1	.13	.42	1.08	42	108	442	.24	1
J-65	1600.0	1.18	1	.08	.51	1.50	43	127	438	.14	1
J-65	1890.0	1.10	1	.07	.33	.87	30	79	431	.17	1
J-65	2310.0	.78	1	.03	.15	.99	19	126	430	.17	1
J-65	2700.0	.61	1	.03	.09	.81	14	132	431	.25	1
J-65	3010.0	1.31	1	2.71	1.88	1.31	143	100	351	.59	1
J-65	3410.0	.68	1	0.00	.13	.68	19	100	435	0.00	1
J-65	3630.0	.63	1	.01	.17	.46	26	73	437	.06	1
J-65	3860.0	3.51	1	.11	1.82	.94	51	26	433	.06	1
J-65	4300.0	.55	1	.04	.16	.41	29	74	435	.20	1
J-65	4700.0	.57	1	.05	.18	.51	31	89	431	.23	1
J-65	5000.0	.83	1	.07	.39	1.04	46	125	434	.15	1
J-65	5300.0	.74	1	.05	.29	.53	39	71	434	.15	1
J-65	5500.0	.76	1	.11	.42	.54	55	71	433	.21	1
J-65	5600.0	4.67	1	1.27	22.28	1.36	477	29	417	.05	1
J-65	5670.0	4.32	1	1.17	17.26	1.30	399	30	421	.06	1
J-65	5720.0	3.23	1	.64	10.46	1.16	323	35	420	.06	1
J-65	5800.0	2.51	1	.85	1.70	.62	67	24	440	.33	1
J-65	5900.0	2.09	1	.57	.85	.47	40	22	437	.40	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
TATE J-65 (6424/12526)											
J-65	5990.0	3.26	1	1.04	.82	.40	25	12	522	.56	1
J-65	6280.0	.22	1	.03	.04	.29	18	131	376	.50	1
J-65	6710.0	.43	1	.12	.37	.32	86	74	426	.25	1
J-65	7200.0	.24	1	.04	.05	.26	20	108	433	.50	1
J-65	7700.0	.18	1	.07	.03	.20	16	111	359	.70	1
J-65	8400.0	.15	1	.02	0.00	.16	0	106		1.00	1
J-65	8700.0	.17	1	.02	0.00	.18	0	105		1.00	1
J-65	8950.0	.56	1	.11	.92	.21	164	37	426	.11	1
J-65	9200.0	.42	1	.14	.21	.44	50	104	426	.41	1
TAYLOR LAKE K-15 (6554/13303)											
K-15	4330.0	2.11	1	.56	.20	.10	9	4	318	.74	1
K-15	4380.0	2.94	1	.65	.23	.16	7	5	383	.74	1
K-15	4430.0	4.76	1	.29	.14	.44	2	9		.69	1
K-15	4450.0	3.71	1	.40	0.00	.53	0	14		1.00	1
TENLEN A-73 (6752/13043)											
A-73	672.0	3.03	4	2.79	5.07	.53	167	17	450	.35	4
A-73	700.0	3.87	4	1.80	7.76	.65	201	17	446	.19	4
A-73	728.0	1.99	4	1.18	1.86	.46	93	23	442	.39	4
A-73	747.0	4.95	4	2.75	8.43	.48	170	10	445	.25	4
A-73	765.0	6.59	4	2.42	9.95	.60	151	9	445	.20	4
A-73	801.0	3.85	4	1.95	4.92	.54	128	14	449	.28	4
A-73	830.0	3.27	4	1.50	3.95	.41	121	13	445	.28	4
A-73	845.0	5.81	4	2.79	6.37	.35	110	6	443	.30	4
A-73	859.0	5.09	4	2.19	9.79	.24	192	5	440	.18	4
A-73	887.0	3.43	4	1.95	3.64	.46	106	13	442	.35	4
A-73	910.0	4.53	4	2.58	7.22	.78	159	17	439	.26	4
A-73	941.0	3.30	4	2.21	6.25	.46	189	14	438	.26	4
A-73	945.0	1.85	4	.99	2.88	.34	156	18	438	.26	4
A-73	956.0	3.09	4	1.34	5.12	.31	166	10	443	.21	4
A-73	970.0	3.00	4	1.43	5.51	.36	184	12	436	.21	4
A-73	977.0	1.94	4	1.31	3.29	.35	170	18	433	.28	4
A-73	1020.0	.34	4	.63	.90	.13	265	38	500	.41	4
A-73	1175.0	6.40	4	3.24	9.75	.92	152	14	436	.25	4
A-73	1196.0	3.29	4	1.29	3.26	.89	99	27	445	.28	4
A-73	1203.0	4.38	4	1.69	4.18	.70	95	16	449	.29	4
A-73	1225.0	.67	4	.40	.67	.38	100	57	548	.37	4
TRAIL RIVER H-37 (6636/13450)											
H-37	8860.0	.76	1	.30	.31	.35	40	46	454	.50	1
H-37	8870.0	2.18	1	.69	.74	.19	33	8	520	.49	1
H-37	8880.0	2.62	1	.74	.69	.26	26	9	522	.52	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
TRAINOR LAKE H-28 (6017/12034)											
H-28	6780.0	1.14	1	.23	.08	.38	7	33	515	.77	1
TROUT LAKE P-34 (6023/12105)											
P-34	420.0	2.47	1	.49	5.28	.45	213	18	437	.09	1
P-34	755.0	11.02	1	7.24	54.13	.95	491	8	438	.12	1
TURKEY LAKE #1 (6107/12022)											
TU#1	2970.0	2.11	1	.57	1.06	.42	50	19	456	.35	1
WELDON O-65 (6604/13227)											
O-65	4140.0	2.65	1	.03	1.27	.69	47	26	439	.02	1
O-65	4190.0	1.75	1	.33	.50	.78	28	44	418	.40	1
O-65	4190.0	3.42	1	.50	.11	.19	3	5	466	.83	1
O-65	4240.0	4.36	1	.51	.35	.11	8	2	580	.59	1
O-65	4300.0	3.75	1	.38	.18	.09	4	2	577	.68	1
O-65	4330.0	3.57	1	.66	.18	.11	5	3	438	.79	1
WILLOW LAKE B-20 (6217/11904)											
B-20	1882.0	4.46	1	3.44	19.24	.80	431	17	438	.15	1
B-20	1895.0	6.70	1	4.49	33.83	.96	504	14	438	.12	1
B-20	2004.0	5.93	1	5.34	29.44	.72	496	12	438	.15	1
B-20	2040.0	8.14	1	7.39	42.48	.71	521	8	437	.15	1
WILLOW LAKE O-27A (6216/12104)											
O-27	1190.0	2.81	1	1.51	4.62	.41	164	14	453	.25	1
WRIGLEY G-70 (6309/12411)											
G-70	2300.0	.47	1	.31	.22	.21	46	44	357	.60	1
G-70	2400.0	2.09	1	1.67	.32	.33	15	15	362	.84	1
G-70	2480.0	2.04	1	1.31	.21	.25	10	12	379	.86	1
G-70	2620.0	1.32	1	.96	.49	.34	37	25	356	.67	1
G-70	2700.0	.72	1	.40	.19	.19	26	26	345	.69	1
G-70	2790.0	1.07	1	.61	.37	.24	34	22	360	.62	1
G-70	2880.0	2.17	1	.88	.40	.43	18	19	362	.69	1
WRIGLEY I-54 (6313/12354)											
I-54	450.0	3.46	1	1.82	.19	.24	5	6		.91	1
I-54	550.0	3.08	1	1.52	.17	.25	5	8		.90	1
I-54	600.0	1.27	1	.34	.18	.36	14	28		.65	1
I-54	800.0	.21	1	.11	.15	.30	71	142	353	.42	1
I-54	1000.0	.17	1	.09	.08	.17	47	100		.56	1

TABLE 2. TOTAL ORGANIC CARBON (%TOC) AND ROCK-EVAL PYROLYSIS DATA

SAMPLE WELL	DEPTH(ft)	%TOC	REF	ROCK - EVAL PYROLYSIS S1	S2	S3	HI	OI	Tmax	PI	REF
WRIGLEY I-54 (6313/12354)											
I-54	1200.0	.89	1	.37	.10	.32	11	35		.80	1
I-54	1250.0	2.73	1	1.62	.47	.31	17	11	349	.78	1

TABLE 3. REFLECTED LIGHT MICROSCOPY

SAMPLE		VITRINITE REFLECTANCE					PYROBITUMEN REFLECTANCE						
	DEPTH		%Ro RANGE		MEAN	STD.			RANGE			STD.	VRo	
WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
ARCTIC RED C-60 (6649/13355)														
C-60	5400.0	12	1.00	1.28	1.12	0.09	1							
C-60	5480.0	9	.99	1.36	1.18	0.1	1							
ARCTIC RED G-55 (6644/13309)														
G-55	400.0	53	.44	.73	.53	.07	2							
G-55	900.0	50	.42	.78	.60	.09	2							
G-55	2600.0	33	.67	.98	.83		2							
G-55	3700.0	10	.95	1.08	1.02	.04	2							
G-55	7600.0	10	1.21	1.45	1.34	.07	2							
ARROWHEAD I-46 (6045/12222)														
I-46	440.0	3	.49	.53	.51		1							
I-46	1030.0	16	.54	.59	.57	0.01	1							
I-46	1280.0	4	.59	.65	.63	0.02	1							
I-46	1620.0	7	.59	.66	.62	0.03	1							
I-46	2000.0	5	.78	.84	.82	0.02	1							
I-46	2220.0	4	.82	.86	.84	0.01	1							
I-46	2700.0	2	.80	.81	.81		1							
I-46	4164.5	15	.94	1.08	1.00	0.04	1	3	1.17	1.29	1.21		1.15	1
I-46	6097.0	5	1.42	1.65	1.56	0.09	1	12	1.97	2.30	2.13	.090	1.72	1
I-46	6136.5	35	2.05	2.66	2.27	0.12	1	6	2.78	3.30	2.98		2.24	1
I-46	6136.5	3	1.72	1.85	1.77		1	11	1.93	2.38	2.16		1.73	1
I-46	6497.0							13	1.94	2.42	2.13	.130	1.72	1
I-46	6497.0							21	2.36	2.67	2.52	.090	1.96	
I-46	6497.0	5	1.45	1.59	1.54		1	2	1.62	1.87	1.74		1.48	1
I-46	6756.5	2	1.52	1.66	1.59		1	7	2.11	2.40	2.32	.060	1.82	1
BELOT H. M-63 (6702/12627)														
M-63	300.0	3	.40	.54	.46		2							
M-63	3400.0	50	.45	.79	.61	.09	2							
BLACKWATER I-54 (6433/12239)														
I-54	800.0	28	.48	.78	.59	.1	2							
BLACKWATER LAKE G-52 (6401/12255)														
G-52	4400.0	50	2.24	2.94	2.69	.17	2							
G-52	5400.0	15	2.25	2.95	2.67	.29	2							
BLUEBERRY CREEK K-53 (6442/12625)														
K-53	325.0	25	.59	.64	.62	.02								
BLUEFISH K-71 (6450/12559)														
A-71	100.0	41	.30	.58	.41		2							
K-71	1300.0	20	.36	.64	.50	.09	2							
K-71	1400.0	7	.35	.57	.46	.09	2							
K-71	1600.0	12	.42	.64	.52	.07	2							
K-71	2600.0	51	.55	.87	.74	.08	2							
K-71	4000.0	20	.55	.86	.73	.1	2							

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
K-71	4100.0	15	.75	1.04	.90	.09	2							
BRACKETT C-21 (6510/12505)														
C-21	400.0	8	.31	.56	.43	.1	2							
C-21	920.0	14	.33	.64	.49	.1	2							
C-21	1010.0	28	.36	.61	.45		2							
C-21	1200.0	37	.30	.53	.41	.06	2							
C-21	1400.0	50	.32	.66	.49	.09	2							
C-21	2000.0	39	.33	.56	.43	.07	2							
C-21	3100.0	5	.34	.46	.41	.05	2							
CAMERON HILLS A-05 (6004/11730)														
A-05	4210.0	3	.41	.42	.41		1							
CANYON CREEK #1 (6510/12618)														
CC#1	1865.0				.74		4							
CARIBOU N-25 (6614/13450)														
N-25	480.0	7	.47	.52	.49	0.01	1							
N-25	500.0	39	.40	.68	.57	.1	2							
N-25	700.0	4	.46	.53	.50	0.03	1							
N-25	900.0	4	.49	.56	.53	0.03	1							
N-25	1050.0	5	.54	.59	.56	0.02	1							
N-25	1470.0	5	.56	.62	.59	0.02	1							
N-25	1500.0	14	.53	.71	.60	.06	2							
N-25	1770.0	2	.55	.61	.58		1							
N-25	2100.0	4	.59	.64	.61	0.02	1							
N-25	2500.0	5	.69	.74	.72	0.02	1							
N-25	2900.0	5	.69	.75	.73	0.02	1							
N-25	3390.0	4	.97	1.05	1.00	0.03	1	6	1.21	1.30	1.26	.030	1.18	1
N-25	3500.0	50	1.16	1.69	1.40	.1	2							
N-25	3680.0	13	1.02	1.21	1.10	0.06	1	3	1.29	1.34	1.31		1.21	1
N-25	4100.0	50	1.42	1.87	1.65	.11	2							
N-25	4180.0	12	1.05	1.28	1.19	0.08	1	2	1.34	1.36	1.35		1.23	1
N-25	4570.0	4	1.26	1.36	1.30	0.04	1							
N-25	4890.0	10	1.48	1.68	1.56	0.05	1							
N-25	5200.0	39	1.30	1.68	1.45	.11	2							
N-25	5200.0	5	1.48	1.82	1.69	0.12	1							
N-25	5600.0	6	1.61	1.79	1.69	0.06								
N-25	5883.0	2	1.65	1.70	1.68		1							
N-25	6600.0							5	1.95	2.28	1.13	.110	1.00	
N-25	7200.0	3	1.86	1.97	1.91		1							
N-25	7900.0	3	1.85	2.19	2.03		1	4	2.30	2.50	2.38	.070	1.87	1
N-25	8600.0	3	1.98	2.09	2.02		1	11	2.40	2.74	2.52	.090	1.96	1
N-25	9200.0							16	2.76	2.99	2.85	.060	2.16	1
N-25	9600.0							6	2.87	3.05	2.94	.050	2.22	1
N-25	11000.0							7	3.42	3.84	3.63	.150	2.64	1
N-25	11000.0							18	2.84	3.18	3.01	.090	2.26	1
CARTRIDGE F-72 (6311/12029)														
F-72	665.0	7	.75	.80	.78	.02	1							
F-72	679.0	2	.77	.83	.80		1							
CLARE F-79 6708/13314)														
F-79	3850.0				.90		4							

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
CLOVERLEAF I-46 (6355/12452)														
I-46	2170.0	3			.70		1							
I-46	2170.0	6	.53	.62	.58	0.03	1							
I-46	2400.0	6			.81	0.02	1							
I-46	2400.0	9	.52	.58	.54	0.02	1							
I-46	2690.0	9			.99	0.05	1							
I-46	3720.0	7			1.29	0.08	1							
I-46	4700.0	4			1.69	0.03	1							
I-46	4900.0	5	1.68	1.75	1.72	0.03	1	6	2.09	2.22	2.13	.050	1.72	1
I-46	5490.0							7	2.24	2.51	2.39	.100	1.88	1
COLLVILLE D-45														
D-45	2900.0	7	.33	.49	.41	.06	2							
COLVILLE E-15 (6714/12618)														
E-15	3200.0	45	.26	.51	.39	.09	2							
E-15	4590.0	50	.61	.88	.75	.06	2							
CORM LAKE G-15 (6104/12202)														
G-15	3890.0	4	1.01	1.17	1.06		1	2	1.12	1.15	1.14		1.10	1
CRANSWICK A-22 (6531/13148)														
A-22	300.0	16	1.33	1.81	1.59	.17	2							
A-22	700.0	35	1.33	1.81	1.59	.17	2							
A-22	2700.0	19	1.92	2.58	2.23	.19	2							
A-22	3630.0	25	1.18	1.70	1.44	0.12	1							
A-22	3840.0	6	1.50	1.70	1.61	0.06	1							
CRANSWICK A-42 (6541/13307)														
A-42	500.0	14	.51	.77	.61	.1	2							
A-42	2500.0	43	.90	1.23	1.12		2							
A-42	7000.0	4	1.88	2.04	1.92	0.07	1	7	2.34	2.54	2.48	.060	1.93	1
A-42	7080.0	3	2.10	2.21	2.15		1	11	2.37	2.75	2.53	.100	1.96	1
D.F. STOTT1 (64/125 ?)														
ST1	0.0	25	.53	.64	.59	.03								
D.F. STOTT2 (6341/12531)														
ST2	0.0	10	1.91	2.14	2.03	.08								
ST2	0.0	13	2.18	2.50	2.33	.1		7	2.99	3.18	3.09	.080	2.31	
ST2	0.0							5	4.40	4.76	4.63	.150	3.26	
ST2	0.0							7	3.56	3.96	3.77	.130	2.73	
DAHADINNI D-65 (6354/12427)														
D-65	1020.0	3			.62	0.03	1							
D-65	1850.0	2			.71		1							
D-65	1920.0	6			1.12	0.07	1	6			1.22	.060	1.15	1
D-65	2410.0	6			.90	0.07	1							
D-65	4250.0	4			1.30	0.05	1	2			1.69		1.44	1
D-65	4470.0	10	1.24	1.50	1.42	0.08								
D-65	5280.0							7	2.01	3.00	2.37	.310	1.86	1
D-65	5800.0							25	2.87	3.40	3.11	.150	2.32	1
EAST MACKAY B-45 (6444/12538)														

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
B-45	3850.0	5	.38	.43	.41	0.02								
EBBUTT D-50 (6219/12223)														
D-50	120.0							9	1.17	1.39	1.29	.065	1.20	1
D-50	1461.0	8	1.84	2.22	2.00	.11	1	1			2.59		2.00	1
D-50	1480.0				3.09		3							
D-50	1510.0				2.83	0.11	3							
D-50	1530.0	8	1.91	2.20	2.04	.113	1							
EBBUTT J-05 (6224/12215)														
J-05	690.0	2	.67	.69	.68		1							
J-05	1610.0							10	1.14	1.36	1.26	.067	1.18	1
J-05	1910.0							3	1.30	1.34	1.32		1.22	1
J-05	2150.0							9	1.42	1.62	1.49	.080	1.32	1
FISH LAKE G-60 (6309/12255)														
G-60	1500.0	5	1.50	1.63	1.57	0.05	1	2	2.14	2.24	2.19		1.75	1
G-60	1640.0	4	1.57	1.83	1.75	0.11	1							
FOETUS LAKE #1 (6055/11831)														
FL#1	2597.0	9	.50	.56	.54	0.02								
FORT SIMPSON M-70 (6159/12227)														
M-70	1730.0	7	1.40	1.60	1.54	0.07	1							
GOOSE ISL L-57 (6516/12656)														
L-57	1300.0	7	.60	.82	.74	.09	2							
L-57	1700.0	40	.50	.88	.69	.12	2							
GRANDVIEW HILL #1 (6706/13053)														
GH#1	400.0	50	.73	1.05	.87	.09	2							
GH#1	780.0				.74		4							
GH#1	800.0	50	.42	.69	.57	.07	2							
GH#1	1600.0	14	.42	.65	.50	.07	2							
GH#1	1700.0	50	.40	.74	.49	.09	2							
GH#1	2200.0	50	.40	.66	.46	.08	2							
GH#1	2800.0	7	.73	.84	.79	.04	2							
HARRIS RIVER A-31 (6230/12006)														
A-31	540.0	3	.68	.72	.71		1							
A-31	570.0	3	.68	.72	.71		1							
A-31	680.0	5	.70	.74	.72	.015	1							
HIGHLAND LAKE I-23 (6232/12219)														
I-23	790.0	5	.84	.95	.90	0.043	1	13	.99	1.16	1.07	.052	1.06	1
I-23	1690.0							20	1.34	1.57	1.46		1.30	
I-23	1840.0							4	1.45	1.53	1.50	.028	1.33	1
HOOSIER RIDGE #1 (6524/12732)														
HR#1	1020.0				.71		4							
HOOSIER RIDGE #2 (6525/12732)														
HR#2	2070.0				.70		4							
HR#2	2135.0				.73		4							

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
HORTON G-02 (6951/12715)														
G-02	1530.0	50	.35	.60	.43	.05	2							
G-02	2300.0	50	.63	.96	.79	.08	2							
G-02	4400.0	13	.81	1.09	.95	.1	2							
JOHNSON A-12 (6331/12402)														
A-12	2120.0							6	1.52	1.74	1.65	.070	1.42	1
A-12	3210.0							23	2.00	2.43	2.25	.110	1.79	1
KAKISKA LAKE L-19 (6058/11803)														
L-19	2168.0	12	.44	.50	.48	0.02	1							
KEELE A-28 (6407/12504)														
A-28	200.0	50	.44	.64	.53	.06	2							
A-28	1300.0	50	.46	.69	.60	.06	2							
A-28	1800.0	44	.47	.72	.60		2							
A-28	2600.0	50	.47	.74	.59	.05	2							
A-28	5300.0	50	1.34	1.87	1.63	.15	2							
A-28	6800.0	50	1.70	2.19	1.94	.14	2							
A-28	7500.0	7	1.41	1.97	1.67	.201								
A-28	7900.0	50	1.92	2.92	2.42	.299								
A-28	8140.0	2			1.85		1	8	2.41	2.67	2.52	.086	1.96	1
A-28	8400.0	31	1.92	3.18	2.62	0.316	1	8	2.82	3.22	2.97	.140	2.24	1
KEELE E-19 (6408/12503)														
E-19	918.0	15	.60	.68	.64	.02	1							
E-19	3034.0	7	.62	.68	.64	.02	1							
E-19	3346.0	4	.90	.96	.92	.03	1							
E-19	4100.0	5	.96	1.14	1.09	.07	1							
E-19	5084.0	2	1.15	1.18	1.17		1							
KUGALUK N-02 (6831/13131)														
N-02	2703.0	5	1.44	1.61	1.51	0.06	1	5	1.97	2.18	2.06	.070	1.67	1
N-02	2929.0							6	1.95	2.25	2.10	.120	1.70	1
LAFERTE RIVER M-16 (6145/11833)														
M-16	1031.0	7	.81	.85	.83	.013	1							
M-16	1180.0	6	.87	.94	.92	.03	1	3	1.00	1.13	1.07	.063	1.06	1
LITTLE BEAR I-70 (6439/12556)														
I-70	5450.0	5	.51	.53	.52		1							
LOON CREEK #1 (6511/12654)														
LC#1	385.0	1			.62		1							
LC#1	526.0	5	.61	.65	.62	0.02	1							
MACKENZIE RIVER #1 (6516/12653)														
G-47	1450.0				.60		4							
G-47	1485.5				.53		4							
MAIDA CK G-56 (6536/12810)														
G-56	200.0	19	1.10	1.74	1.28	.13	2							
G-56	1000.0	60	.62	.93	.80	.07	2							
G-56	1400.0	27	.69	1.12	.88	.11	2							
G-56	1700.0	38	.52	.96	.73	.13	2							

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
G-56	1734.0				.60		4							
G-56	1800.0	14	.75	.93	.83	.05	2							
MILLS LAKE A-70 (6109/11756)														
A-70	2101.0	3	.66	.73	.71		1							
A-70	2125.0	2	.51	.52	.52		1							
MILLS LAKE B-75 (6114/11728)														
B-75	1455.5	9	.54	.59	.56	.02	1							
B-75	1470.7	3	.57	.59	.58		1							
MINK LAKE I-38 (6137/11735)														
I-38	875.0	21	.44	.56	.49	0.03	1							
I-38	911.0	7	.49	.57	.52	0.03	1							
McPHERSON B-25 (6714/13534)														
B-25	600.0	50	.55	.84	.69	.08	2							
B-25	1400.0	52	.60	.91	.78	.07	2							
B-25	2200.0	50	.65	.98	.86	.07	2							
B-25	2800.0	48	.74	1.08	.94	.1	2							
B-25	3500.0	50	.90	1.38	1.15	.11	2							
B-25	4000.0	11	.96	1.26	1.14	.09	2							
B-25	4800.0	47	1.04	1.48	1.32	.1	2							
B-25	7400.0	44	1.65	2.18	1.93	.14	2							
B-25	7700.0	50	1.83	2.35	2.21	.19	2							
B-25	9500.0	50	2.01	2.88	2.57	.2	2							
McPHERSON C-78 (6737/13414)														
C-78	1600.0	16	.65	.89	.76	.07	2							
C-78	1600.0	33	.96	1.21	1.06	.07	2							
C-78	3000.0	51	1.14	1.49	1.35	.09	2							
NORMAN WELLS 36X (6517/12653)														
B-48	1228.4				.56		4							
ONTADEK N-39 (6618/12821)														
N-39	600.0	50	.37	.64	.51	.06	2							
ONTARATUE H-34 (6623/13205)														
H-34	130.0	3	.57	.61	.59	0.02	1							
H-34	360.0	2	.55	.60	.55		1							
H-34	700.0	5	.63	.67	.65	0.02	1							
H-34	1000.0	10	.61	.71	.66	0.03	1							
H-34	1300.0	5	.66	.70	.69	0.01	1							
H-34	1600.0	50	.89	1.24	1.04	0.09	2							
H-34	1960.0	5	.66	.74	.71	0.03	1							
H-34	2480.0	9	.77	.83	.81	0.02	1							
H-34	2760.0	3	.89	.94	.92		1							
H-34	2960.0	5	.85	1.07	.98	0.07	1							
H-34	3210.0	18	1.07	1.30	1.17	0.07	1							
H-34	3620.0	4	1.06	1.18	1.11	0.05	1							
H-34	3800.0	11	1.00	1.14	1.07	.04	2							
H-34	3990.0	4	1.09	1.25	1.18	0.06	1							
H-34	11100.0							4	3.09	3.55	3.32	.170	2.45	1

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
ONTARATUE K-04 (6633/13046)														
K-04	100.0	7	.54	.59	.56	0.02	1							
K-04	400.0	50	.55	.77	.67	.06	2							
K-04	410.0	25	.60	.66	.63	0.02	1							
K-04	750.0	6	.53	.63	.58	0.04	1							
K-04	910.0	10	.53	.69	.62	0.04	1							
K-04	930.0	25	.52	.67	.60	0.04	1							
K-04	1310.0	7	.64	.71	.68	0.02	1							
K-04	1600.0	15	.56	.88	.68	0.09	2							
K-04	1650.0	12	.70	.81	.76	0.04	1							
K-04	1890.0	3	.62	.77	.69		1							
K-04	3280.0	2	.85	.90	.88		1							
PEEL D-64 (6553/13227)														
D-64	2200.0	46	.85	1.28	1.08	.12	2							
D-64	2500.0	41	.96	1.27	1.12	.07	2							
D-64	4300.0	20	1.78	2.14	1.95	.1	2							
PEEL F-37 (6656/13451)														
F-37	300.0	50	.46	.63	.55	.04	2							
F-37	1500.0	49	.51	.71	.61	.06	2							
F-37	3000.0	19	.50	.75	.63	.07	2							
F-37	4600.0	41	.64	.92	.82		2							
F-37	6200.0	15	1.14	1.52	1.31	.1	2							
PEEL RIVER M-69 (6608/13358)														
M-69	7540.0	25	3.09	3.80	3.37	0.23	1							
PROVIDENCE K-45 (6134/11747)														
K-45	468.5				.57		3							
K-45	691.0	3	.48	.52	.50		1							
K-45	826.5				.52		3							
K-45	827.5				.54		3							
K-45	835.0	4	.49	.53	.50	.02	1							
RABBITSKIN I-08 (6137/11930)														
I-08	1382.0				1.32		3							
I-08	1409.0	5	1.35	1.43	1.38	.02	1							
RAMPARTS A-59 (6528/13039)														
A-59	900.0	42	.48	.69	.58	.05	2							
A-59	1400.0	50	.48	.87	.61	.09	2							
A-59	1800.0	28	.50	.72	.59	.07	2							
A-59	3500.0	33	1.21	1.71	1.46	.14	2							
A-59	6300.0	50	2.12	2.63	2.34		2							
A-59	6800.0	4	1.21	1.39	1.31	0.07	1							
A-59	7130.0	5	1.84	2.16	2.00	0.12	1							
A-59	7400.0	11	1.95	2.33	2.12	.1	2							
RAMPARTS I-77 (6526/13558)														
I-77	2350.0	7	1.46	1.63	1.55	0.06	1	4	1.92	2.04	1.99	.040	1.63	1
I-77	2570.0	4	1.60	1.79	1.68	0.07	1	8	2.02	2.28	2.10	.080	1.70	1
RAT PASS K-35 (6754/13521)														
K-35	200.0	12	.45	.69	.59	.09	2							

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
K-35	2400.0	37	.84	1.26	1.06	.13	2							
K-35	3400.0	20	.95	1.39	1.15	.13	2							
K-35	4200.0	50	.85	1.30	1.12	.12	2							
REDSTONE #1 (6411/12438)														
RS#1	1370.0	3	.52	.54	.53		1							
RS#1	1860.0							3	1.61	1.76	1.66		1.43	1
RS#1	2065.0	2	1.25	1.53	1.39		1							
ROND LAKE #2 (6704/12828)														
RL#2	460.0	3	.60	.65	.62		1							
SHOALS C-31 (6550/12851)														
C-31	1600.0	50	.40	.62	.52	.07	2							
C-31	1900.0	14	.37	.62	.52	.08	2							
C-31	2300.0	50	.53	.84	.72	.07	2							
SIBB LAKE G-24 (6133/12234)														
G-24	1600.0	5	1.17	1.27	1.22	0.04	1	10	1.46	1.60	1.54	.040	1.35	1
SILVAN PLATEAU G-51 (6350/12525)														
G-51	130.0	11	2.02	2.30	2.16	0.09	1	5	3.15	3.46	3.28	.110	2.43	1
G-51	640.0							8	3.17	3.51	3.39	.120	2.50	1
G-51	640.0							5	2.13	2.20	2.17	.020	1.74	1
G-51	1130.0							10	3.53	4.00	3.76	.140	2.73	1
G-51	1130.0							6	2.30	2.52	2.36	.070	1.86	1
G-51	2250.0							9	3.82	4.29	3.99	.130	2.87	1
G-51	2250.0							4	2.69	2.91	2.77	.080	2.11	1
G-51	2450.0							11	3.92	4.50	4.26	.180	3.03	1
G-51	2450.0							6	2.60	2.94	2.77	.130	2.11	1
STEWART B-30 (6419/12519)														
B-30	5280.0	4	.54	.58	.56	0.02	1							
B-30	5670.0	4	1.20	1.38	1.28	0.07	1	7	1.47	1.79	1.62	.120	1.40	1
B-30	5900.0	10	1.27	1.51	1.39	0.1	1	15(	1.74	1.84	1.78	.030	1.50	1
STONY I-50 (6729/13522)														
I-50	510.0	50	.40	.61	.48	.05	2							
I-50	1100.0	50	.71	1.04	.90	.1	2							
I-50	2200.0	42	1.07	1.38	1.24	.08	2							
I-50	3600.0	48	1.40	1.89	1.62	.14	2							
I-50	4900.0	50	1.75	2.31	2.07	.14	2							
STRONG POINT G-24 (6153/12049)														
G-24	1360.0	10	.96	1.14	1.05		1	2	1.31	1.34	1.33		1.22	1
TATE J-65 (6424/12526)														
J-65	300.0	27	.32	.42	.37	0.03	1							
J-65	900.0	11	.35	.41	.38	0.02	1							
J-65	1160.0	24	.39	.45	.42	0.01	1							
J-65	1600.0	19	.38	.50	.44	0.04	1							
J-65	1600.0	50	.34	.59	.43	.06	2							
J-65	1890.0	6	.38	.50	.43	0.04	1							
J-65	2700.0	10	.45	.50	.48	0.01	1							
J-65	2700.0	40	.31	.65	.45		2							

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
J-65	3010.0	11	.47	.51	.49	0.01	1							
J-65	3410.0	9	.49	.53	.51	0.01	1							
J-65	3600.0	11	.50	.64	.57		2							
J-65	3800.0	15	.42	.61	.51	.08	2							
J-65	3860.0	17	.51	.57	.54	0.02	1							
J-65	4700.0	7	.53	.57	.55	0.01	1							
J-65	4700.0	24	.46	.69	.60		2							
J-65	5300.0	32	.46	.67	.56		2							
J-65	5900.0	4	.55	.59	.58	0.02	1							
J-65	6710.0							50	2.53	3.14	2.85	.140	2.16	1
J-65	7200.0							5	3.74	4.44	4.12	.260	2.95	1
J-65	7200.0	2	2.07	2.21	2.14		1	8	2.89	3.17	3.03	.080	2.27	1
J-65	7200.0	38	.46	.74	.56		2							
J-65	7700.0							12	2.58	2.98	2.85	.120	2.16	1
J-65	8950.0	2	.70	.74	.72		1							
J-65	9200.0	28	.86	1.29	1.08	.11	2							
J-65	9298.0	5	.75	.80	.77	0.02	1							
J-65	9298.0	4	1.21	1.37	1.28	0.07	1							
TAYLOR LAKE K-15 (6554/13303)														
K-15	4330.0	9	1.22	1.34	1.27	0.04	1							
K-15	4450.0	15	1.34	1.56	1.42	0.07	1							
TEDJI LAKE K-24 (6743/12649)														
K-24	300.0	26	.38	.56	.47	.05	2							
TENLEN A-73 (6752/13043)														
A-73	902.0	12	.76	.96	.88	.06	2							
A-73	1173.0	50	.75	1.18	.97	.1	2							
A-73	2303.0	24	1.76	2.05	1.94	.1	2							
TRAIL RIVER H-37 (6636/13450)														
H-37	8880.0	31	1.67	2.10	1.87	0.11	1							
TURKEY LAKE #1 (6107/12022)														
TU#1	2970.0	3	1.04	1.08	1.07			6	1.22	1.39	1.31		1.21	1
WELDON O-65 (6604/1322)														
O-65	4190.0	5	1.70	1.99	1.83	0.10	1							
O-65	4330.0							13	2.36	2.57	2.47	.070	1.93	1
WHITEFISH H-34 (6533/12435)														
H-34	320.0	8	.36	.53	.43	.06	2							
H-34	1120.0	8	1.20	1.44	1.32	.09	2							
H-34	2010.0	15	1.25	1.48	1.38	.09	2							
H-34	2400.0	50	1.13	1.48	1.32	.09	2							
WILLOW LAKE B-20 6217/11904														
B-20	1895.0	4	.39	.43	.42	.02	1							
B-20	2040.0	3	.44	.46	.46		1							
WILLOW LAKE O-27A 6216/12104														
O-27	1190.0	5	.61	.68	.65	0.03	1							

WELL	(ft)	n	MIN.	MAX.	%Ro	DEV.	REF	n	MIN.	MAX.	MEAN	DEV.	EQUIV	REF
WRIGLEY G-70 (6309/12411)														
G-70	2880.0							8	2.84	3.34	3.03	.160	2.27	1
G-70	2480.0							3	3.53	3.61	3.58		2.61	1
G-70	2480.0							3	2.89	3.01	2.95		2.22	1
WRIGLEY I-54 (6313/12354)														
I-54	550.0	9	1.30	1.72	1.48	0.12	1							
I-54	1200.0	8	1.65	1.88	1.77	0.07	1							

1 Feinstein et al. (1988) - The present project.
2 Geochem Laboratories (Canada) Ltd. - Applied Geoscience and Technology (AGAT) Consultant Ltd. (1977) - Unpubl. Report.
3 Gunther, P.R. and N.C. Meijer-Drees (1977) - Geol. Surv. Canada, Paper 77-1a, p. 147-149.
4 Snowdon et al. (1987) - Org. Geochem., v.11, p. 529-548.

TABLE 4. BIOMARKER (STERANE AND TRITERPANE) DISTRIBUTIONS

SAMPLE		TRITERPANES				STERANES				
		1	2	3	4	5	6	7	8	9	
WELL	DEPTH (ft)	Ts/Tm	Tm:C29:C30	C34/C35	Hop/Mor	C32 S/R	5@(H)20R-C27:C28:C29	Dia/Reg	C29 S/R	C29 BB/R	REF
BLUEFISH A-49 (6458/12552)											
A-49	1786.0	2.54	14:36:50				35:12:53	1.6	.86	1.69	1
A-49	1786.0	3.68	19:19:62			1.63	34:18:48	1.2	.54	1.08	1
BLUEFISH K-71 (6450/12559)											
K-71	1305.0	.50	10:24:66	.61	5.00	.52	38:31:31	.5	.17	.38	1
K-71	4130.0	1.75	8:37:55		14.40	1.53	31:24:45	1.6	.54	1.05	1
CANYON CREEK #1 (6510/12618)											
CC#1	1865.0	.75	23:40:37		10.50	1.51	38:18:44	.4	.96	1.14	4
CLARE F-79 (6708/13314)											
F-79	3850.0	1.40	18:35:47		10.50	1.63	39:22:39	1.7	.86	1.37	4
EAST MACKAY B-45 (6444/12538)											
B-45	4010.0	.37	9:24:67	.77	7.90	1.36	35:31:34	.8	.53	.55	1
FOETUS LAKE #1 (6055/11832)											
FL-1	2660.0	.72	17:38:45	.90	14.90	1.34	37:21:42	1.2	.90	1.65	1
GRANDVIEW HILL #1 (6706/13053)											
GH#1	780.0	.58	16:33:50		8.04	1.31	38:18:44	.4	.96	1.14	4
HOOSIER RIDGE #1 (6524/12732)											
HR#1	1020.0	2.52			11.60	1.32	38:13:49	2.1	.88	1.53	4
HR#1	1020.0	2.50	15:32:53		12.40	1.50	25:18:57	2.6	.97	1.32	4
HOOSIER RIDGE #2 (6525/12732)											
HR#2	2070.0	2.40			7.30	1.58	36:18:46	1.3	1.09	1.62	4
HR#2	2135.0	2.20	18:26:56		6.70	1.27	42:18:41	1.4	1.18	1.32	4
LAFERTE RIVER M-16 (6145/11833)											
M-16	1031.0	1.90	9:30:61		15.00	1.35	37:15:48	1.3	.94	1.27	1
M-16	1180.0	1.83	12:29:59		12.10	1.76	44:14:42	1.5	1.07	1.49	1
LITTLE BEAR I-70 (6439/12556)											
I-70	5450.0	.50	12:34:54	1.36	4.90	1.56	39:31:30	.6	.63	.51	1
MACKENZIE RIVER #1 (6516/12653)											
G-47	1450.0	1.16			8.30	1.17	38:18:44	.5	.69	.61	4
G-47	1475.0	.39			8.70	1.47	32:19:49		.71	.58	4
G-47	1475.0	.55	21:34:45		11.10	1.48	23:20:57	.7	.85	.52	4
G-47	1485.5	.50	30:35:35		7.90	1.35	40:17:43	.4	.86	.43	4
MAIDA CK G-56 (6536/12810)											
G-56	1734.0	.92	24:32:43		9.10	1.26	31:20:49	1.0	.98	.97	4

TABLE 4. BIOMARKER (STERANE AND TRITERPANE) DISTRIBUTIONS

SAMPLE		TRITERPANES					STERANES				
		1	2	3	4	5	6	7	8	9	
WELL	DEPTH (ft)	Ts/Tm	Tm:C29:C30	C34/C35	Hop/Mor	C32 S/R	5@(H)20R-C27:C28:C29	Dia/Reg	C29 S/R	C29 ββ/R	REF
MILLS LAKE A-70 (6109/11756)											
A-70	2101.0	.51	15:35:50			13.80	1.48	38:11:51	.6	.87	1.00	1
A-70	2114.0	.35	16:35:49	.97		10.00	1.31	37:12:51	.6	.86	.95	1
A-70	2118.0	.46	14:32:54	1.33		12.60	1.49	37:15:48	.8	.93	1.29	1
A-70	2125.5	.86	11:30:59	1.00		15.30	1.85	35:11:53	1.0	.86	1.40	1
MILLS LAKE B-75 (6114/11728)											
B-75	1455.5	.57	18:31:52				1.39	37:13:50	.7	.71	1.29	1
B-75	1470.7	.64	20:32:40				1.20	37:14:49	.7	.89	1.60	1
MINK LAKE I-38 (3137/11735)											
I-38	904.0	.95	6:32:62	1.68		11.30	1.57	29:11:60	1.1	.86	1.04	1
NE TATHLINA LAKE #1 (6046/11719)											
TL-1	2150.0	.72	17:28:55	1.00		12.50	1.77	34:14:58	.4	.97	1.21	1
NORMAN WELLS 36X (6517/12653)											
B-48	1228.4	.62	35:32:33			11.90	1.40	26:21:54	.5	.81	1.08	4
NORMAN WELLS UN1267											
B-28		.65				11.10	1.48	35:19:46	.8	.98	1.44	4
B-28		.74	14:35:51			16.40	1.41	35:13:52	1.2	1.06	1.15	4
PROVIDENCE K-45 (6134/11747)											
K-45	691.0	1.14	12:30:58			5.83	1.41	39:17:44	.6	1.14	1.00	1
K-45	725.0	1.17	9:35:56	1.89		6.82	1.59	33:17:50	1.1	.95	.86	1
K-45	835.0	1.03	13:35:52			16.20	1.31	40:14:46	.8	.98	1.25	1
RUSSEL M-07 (6526/12331)											
M-07	200.0	.26	9:24:67	.65		12.50	1.36	35:31:34	1.2	.68	1.10	1
STEWART B-30 (6419/12519)											
B-30	5310.0	.40	10:28:62			7.75	1.21	35:33:32	1.1	.50	.51	1
TROUT LAKE P-34 (6023/12105)											
P-34	420.0	.28	12:28:60			5.34	.93	43:22:35	.7	.18	.45	1
TROUT LAKE P-34 (6023/12105)											
P-34	755.0	.48	12:35:53	1.75		13.00	1.50	45:13:41	.8	.92	.97	1
WILLOW LAKE B-20 (6217/11904)											
B-20	2040.0	.69	12:31:57				1.64	36:17:47	1.0	1.02	1.54	1
B-20	1895.0	.61	13:32:55			10.60	1.70	44:15:41	.6	.97	.77	1

1 18α(H)/17α(H) trisnorhopanes
2 Relative abundance of C27 17a(H)-trisnorhopane:C29 17α(H)-norhopane:C30 17α(H)-hopane
3 Ratio of C34 to C35 17α(H)-extended hopanes.
4 Ratio of C30 hopane/moretane
5 Ratio of (22S/22R)-C32 17a(H)-hopane
6 Relative abundance of C27:C28:C29 5α(H)-steranes
7 C27 rearranged/regular steranes
8 Ratio of (20S/20R) C29 5α(H)-sterane
9 Ratio of 14β(H),17β(H)/(20R)5α(H) C29-steranes

FIGURE 1

MACKENZIE CORRIDOR

PRELIMINARY INVENTORY MAP OF MATURITY DATA

Mountain front or uplift exposing Middle Devonian or older carbonates in contact (including fault contact) with Devonian shaly strata

Outcrop belt, Canol-like shale, Richardson Mts.

Outcrop belts within MacKenzie Mts. of Middle Devonian or younger shaly strata

Eastern eroded limit of Horn River or Hare Indian Fms. .....

Well location ..... ●

Outcrop sample ..... ●

Well number I-60

Rock-Eval pyrolysis .....◆

Reflected light microscopy .....◆

UV-fluorescence and transmitted light microscopy .....◆

Chemical data .....◆

Citation 1,2

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OTTAWA

kilometres
50 0 50 100 150

NORMAN WELLS
G-47
E-27
B-48
I-57

FIGURE 2

MACKENZIE CORRIDOR

ROCK-EVAL Tmax OF THE HORN RIVER AND EQUIVALENT FORMATIONS

Mountain front or uplift exposing Middle Devonian or older carbonates in contact (including fault contact) with Devonian shaly strata

Outcrop belt, Canol-like shale, Richardson Mts.

Outcrop belts within MacKenzie Mts. of Middle Devonian or younger shaly strata

Eastern eroded limit of Horn River or Hare Indian Fms. .....

Well location ..... •

Outcrop sample ..... ⁎

Well number I-60

Horn River maturity extrapolated from other formations ..... >464(tmp.)

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kilometres 50 0 50 100 150

500 C

450 C

550 C

600 C

NORMAN WELLS
G-47
E-27
B-48
L-57

FIGURE 3

Revised Jan., 1990

MACKENZIE CORRIDOR

VITRINITE REFLECTANCE OF THE HORN RIVER AND EQUIVALENT FORMATIONS

Mountain front or uplift exposing Middle Devonian or older carbonates in contact (including fault contact) with Devonian shaly strata

Outcrop belt, Canol-like shale, Richardson Mts.

Outcrop belts within MacKenzie Mts. of Middle Devonian or younger shaly strata

Eastern eroded limit of Horn River or Hare Indian Fms.

Well location

Outcrop sample

Well number I-60

Vitrinite %Rroil equivalent calculated from pyrobitumen reflectance ..... 1.5(equiv.)

Horn River maturity extrapolated from other formation ..... >2.10(Imp.)

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kilometres
50 0 50 100 150

NORMAN WELL
NORMAN WELLS

140° 138° 136° 134° 132° 130° 128° 126° 124° 122° 120° 118° 116° 114° 112°
69° 68° 67° 66° 65° 64° 63° 62° 61° 60° 59°